

JOB INFORMATION FOR ALL STUDENTS (BCS & BANK)

Exam taken by bibm

All in one

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সংগ্রহে: মোঃ রায়হান আহমেদ

Job Information For All Students (Bcs & Bank)

National Bank Ltd - Probationary Officer - 2015

১. 'প্রসন্ন পাষাণ' উপন্যাসটির রচয়িতা কে?

- আলাউদ্দিন আল আজাদ
- আবুল হোসেন
- রাবেয়া খাতুন
- **রশীদ করিম**

২. শুন্দি বানানটি হচ্ছে ----

- নিসুতী
- নিসুতি
- নিষুতী
- **নিষুতি**

৩. বাংলা ভাষা কোন শব্দ দুটি গ্রহণ করেছে চীনা ভাষা হতে?

- চাকু, চাকর
- খদর, হরতাল
- **চা, চিনি**
- রিঞ্চা, রেঙ্গেরাঁ

৪. 'শশী' ও 'কুমুদ' বাংলা সাহিত্যের কোন বিখ্যাত উপন্যাসের দুটি চরিত্র?

- **পুতুল নাচের ইতিকথা**
- গোরা
- কবি
- উত্তম পুরুষ

৫. 'নির্বক' ও 'প্রথিত' শব্দগ্রন্থের অর্থ যথাক্রমে ---

- নিবিড়, পার্থিব
- উপযোগী, প্রার্থনা
- **বিধান, বিখ্যাত**
- আগ্রহ, প্রথা অনুসারে

৬. 'দহন' শব্দের নিষেষণ কোনটি?

- দাহা
- দহনীয়
- **দহনকারী**
- বিগঞ্চ

৭. উন্নীত শব্দের বিপরীতার্থক শব্দ কি?

- অধোগতি
- অবনতি
- **অবনমিত**
- অবনমন

b. চাঁদ কোন শ্রেণির শব্দ?

- তৎসম
- **তত্ত্ব**
- অর্ধতৎসম
- দেশি

English

Question(1-5) Read the passage and answer the question

Many folk cures which have been around for centuries may be more therapeutic than previously suspected. A case in point is that of penicillin. Alexander Fleming did not just randomly choose cheese molds to study when he discovered this very important bacteria-killing substance. Moldy cheese was frequently given to patients as a remedy for illness at one time. Fleming just isolated what was about the cheese which cured the patients.

In parts of South America, a powder obtained from grinding sugar cane is used for healing infections in wounds and ulcers. This usage may date back to pre-Colombian times. Experiments carried out on several hundred patients indicate that ordinary sugar in high concentrations is lethal to bacteria. Its suction effect eliminates dead cells, and it generates a glasslike layer which protects the wound and ensures healing.

Another example of folk medicine which scientists are investigating is that of Arab fishermen who rub their wounds with a venomous catfish to quicken healing. This catfish excretes a gellike slime which scientists have found to contain antibiotics, a coagulant that helps close injured blood vessels, anti-inflammatory agents, and a chemical that directs production of a gluelike material that aids healing.

It is hoped that by documenting these folk remedies and experimenting to see if results are indeed beneficial, an analysis of the substances can be made, and synthetic substances can be developed for human consumption.

1. This passage is mainly about

- using folk medicines in place of modern medicines
- antibiotics in the field medicine
- **the validity of folk remedies and their use for advances in modern medicines**
- isolating antibiotics in cheese sugar, and slime

2. The word 'therapeutic' is closest in meaning to

- physiological
- **medicinal**
- traditional
- psychological

3. It can be inferred from the passage that Alexander Fleming

- discovered moldy cheese
- **suspected medicinal properties of mold**
- isolated infectious patients
- enjoyed eating cheese

4. According to the passage

- bacteria feed on sugar
- kills unhealthy cells
- glass is formed from sugar
- **sugar promotes healing**

5. The gel-like substance which promotes healing comes from

- catfish bodies
- Arab fishermen
- coagulants
- **catfish venom**

6. Find out which quotation parts of the following sentences has an error. The 'oceans' contain many 'forms' of life that 'has' not 'yet' been discovered.

- oceans
- forms
- **has**
- yet

7. Find out which quotation parts of the following sentences has an error. There have 'recently' been 'any' important 'findings' in medical 'technology.'

- recently
- **any**
- findings
- technology

8. Find out which quotation parts of the following sentences has an error. In recent 'years', automobile emissions 'have disfigured' stone 'carvings', corroded bronze monuments, and 'soil' ancient buildings.

- years
- have disfigured
- carving
- **soil**

9. Find out which quotation parts of the following sentences has an error. The rings 'of' Saturn are 'so' distant to 'be' seen from the Earth 'without' telescope.

- of
- **so**
- be
- without

10. Find out which quotation parts of the following sentences has an error. 'Drying' food 'by means' of solar energy 'is ancient' process 'applied' wherever

- Drying
- by means

- is ancient
- applied

11. The new owners of the paper changed the ----completely.

- outlay
- **layout**
- outlet
- outlook

12. Patriotism, like so many other objects of this imperfect world, is a -----web of good and evil.

- complicated
- intricate
- **tangled**
- entangled

13. During the ---many buildings were -----to the ground.

- **riots, collapsed**
- fire, razed
- floods, razed
- disturbances, brought

14. In a changing and ----unstructured business environment, creativity and innovations are being ----demanded of executives.

- excessively, rapidly
- **highly, extremely**
- increasingly, moderately
- progressively, increasingly

15. He deals -----foreign good only, but our firm deals ----several leading merchants who trade----variety -----goods.

- **in, with, in, of**
- with, with, with, of
- with, in, of, with
- in, in, with, of

Math

5. A culprit was spotted by a policeman from a distance of 250 meter. When the policeman started running towards the culprit at a speed of 10 km/h, the culprit also fled. If his speed was 8 km/h, find how far the culprit had run before he was overpowered.

- 1km
- 1.5 km

- 2 km
- 0.8 km

2. A shopkeeper sells a pair of sunglasses at a profit of 25%. If he had bought it at 25% less and sold it for Tk. 10 less, he would have gained 40%. Determine the cost price of the pair of sunglasses.

- Tk. 25
- **Tk. 50**
- Tk. 60
- Tk. 75

3. A tea merchant blends 2 kinds of tea, putting in 3 parts of a Tk. 25 per kg grade to 1 part of a Tk. 15 per kg. If the mixture is changed to 1 part of the Tk. 25 per kg grade to 3 parts of the less expensive grade, how much will the shop lose or save in blending 200 kg?

- lose Tk. 500
- loss Tk. 1,000
- save Tk. 1,500
- **save Tk. 1,000**

8. A man has Tk. 210 in coins alone. The coins consist of one taka, 50 paisa and whose numbers form a ratio of 5 : 6 : 8 respectively. How many coins are there in the 50 paisa denomination?

- 210
- 168
- **126**
- 105

5. The difference between the compound interest and simple interest on a certain amount of money at 5% per annum for 2 years is Tk. 15. Find the principal amount.

- Tk. 4,500
- Tk. 7,500
- Tk. 5,000
- **Tk. 6,000**

6. In order to pass an examination, a student is required to get 35% of the maximum marks. If a student scored a total of 381 marks and failed by 144 marks, determine the maximum marks for the examination.

- 1,350
- **1,500**
- 1,750
- 2,000

9. The cost of preparing a cricket ground of rectangular shape at 70 paisa per square meter is Tk. 420. Find the perimeter of the field if its sides are in the ratio of 3 : 2.

- **100m**

- 50m
- 110m
- 600m

b. The number $(6n^2 + 6n)$ for natural n is always divisible by

- 6 only
- 12 only
- **6 and 12**
- 18

GK

1. "Epsom" is associated with -----

- Polo
- Water Polo
- Table Tennis
- **Horse Riding**

2. LASER is an acronym for Light Amplification by -----

- Stimulated Emission of Radio waves
- **Stimulated Emission of Radiation**
- Spontaneous Emission of Radio waves
- Spontaneous Emission of Radiation

3. Which of the following international organization is dedicated to the cause of wild life conservation?

- UNDP
- WHO
- **UNESCO**
- UNFPA

4. Which of the following combination is wrong?

- Empire City : New York
- Dark Continent : Africa
- **City of Palaces : London**
- Emerald Isle : Ireland

5. Which of the following diseases is not water-borne?

- Cholera
- **Influenza**
- Amoebiasis
- Typhoid

- ↳ The intensity of an earthquake is measured with a ----
- Barometer
 - Hydrometer
 - Polygraph
 - **Seismograph**
- ↳ How many woman freedom fighters received the "Bir Protik" award for their contribution in the liberation war of Bangladesh?
- 2
 - 5
 - 6
 - 7
- ↳ Who is the president of newly formed multilateral development bank called ' New Development Bank'?
- R.K. Narayanan
 - **K. V Kamath**
 - Y. V. Reddy
 - Bimal Jalan
- ↳ Which of the following players of Bangladesh has the highest average score in test cricket?
- Tamim Iqbal
 - Shakib Al Hasan
 - Mushfiqur Rahim
 - **Mominul Haque**
- ↳ First published novel of Sunil Gangopadhyay was ---
- Eka O Koyekjon
 - Jugalbondi
 - **Atmaprakash**
 - Aranyer dinratri

National Bank Ltd - Probationary Officer - 2013

1. 'Transplanting' organs 'such' hearts and kidneys has 'proved' easier transplanting 'muscles'. 'Find Error'
- Transplanting
 - **such**
 - proved
 - muscles
2. 'Bicyclists' 'joy' riding across 'country' and through small 'towns'. 'Find Error'

➤ Bicyclists

➤ joy

➤ country

➤ towns

3. 'The' cine camera 'has' become obsolete since 'its' invention of video recording 'technology.' 'Find Error

➤ the

➤ has

➤ its

➤ technology

4. 'Drying' food 'by means' of solar energy 'is ancient' process 'applied' wherever food and climatic conditions make it possible. 'Find Error

➤ Drying

➤ by means

➤ is ancient

➤ applied

5. Fiber 'is an important' element 'in' nutrition, and it aids in 'protecting' the digestive tract 'as' well. 'Find Error

➤ is an important

➤ in

➤ protecting

➤ as

6. As I reached home, I saw my sister -----for help.

➤ to shout

➤ shouting

➤ shouted

➤ shout

7. She held the umbrella -----her head.

➤ on

➤ above

➤ over

➤ at

8. If the roof -----, we all ----die.

➤ fell, would

➤ fall, would

➤ fallen, would

➤ falling, would

9. If she ----her identity card, she ----in trouble.

- lose, would be
- **loses, will be**
- will lose, would be
- loses, would be

10. Choose the one which best expresses its meaning. A snake in the grass

- **Secret or hidden enemy**
- Unforeseen happening
- Unrecognizable danger
- Unreliable person

11. Choose the one which best expresses its meaning. To blow hot and cold

- Changing weather
- To be untrustworthy
- **To be inconsistent**
- To be rich and poor frequently

12. Choose the one which best expresses its meaning. To blaze trail

- To set on fire
- To be annoyed
- To vehemently
- **To initiate work in a movement**

13. Choose the one which best expresses its meaning. A green horn

- An envious lady
- A trainee
- **An inexperienced man**
- A soft-hearted man

Math

1. For which of the following values of n is $100+n/n$ not an integer?

- 1
- 2
- **3**
- 4
- 5

2. Robi has 10 pairs of matched socks. If he loses 7 individual socks, what is the greatest number of pairs of matched socks he can have left?

- 7

- 6
- 5
- 4
- 3

5. In a certain population, there are times as many people aged 21 or under as there are people over

21. The ratio of those 21 or under to the total population is :

- 1 to 2
- 1 to 3
- 1 to 4
- 2 to 3
- 3 to 4

6. If the sum of three consecutive integers is odd, then the first and the last integers must be -

- odd, even
- odd, odd
- even, odd
- even, even
- None of these

7. Of 30 applicants for a job, 14 had at least 4 years' experience, 18 had degrees, and 3 had less than 4 years' experience and did not have a degree. How many of the applicants had at least 4 years experience and a degree?

- 14
- 13
- 9
- 7
- 5

8. A person makes a profit of 10% on 25% of the quantity and a loss of 20% on the rest. What is the percentage gain or loss on the whole?

- 10%
- 12.5%
- -12%
- 25%
- None of these

9. If the radius of a circle is increased by 6%, then the area of the circle is increased by ---

- .36%
- 3.6%
- 6%
- 12.36%

➤ 36%

br. A person invested 2/3 th of his capital 3%, 1/6th at 6% and the remainder at 12%. If his annual income is Tk. 25, then the capital is

➤ Tk. 490

➤ Tk. 510

➤ **Tk. 500**

➤ Tk. 510

GK

3. Which of the gas is not known as green house gas?

➤ Methane

➤ Nitrous oxide

➤ Carbon dioxide

➤ **Hydrogen**

➤ Ozon

2. Who is the father of Geometry?

➤ Aristotle

➤ Newton

➤ Pythagoras

➤ Kepler

➤ **Euclid**

5. Which of the following describes correctly the Group of Seven (G-7) countries?

➤ They are developing countries

➤ **They are industrialized countries**

➤ They are holding Atomic Bomb technology

➤ They are countries that can launch their own satellites

➤ None of these

8. Who said the words, 'I disapprove of what you say, but I will defend to death your right to say it?'

➤ G.B. Shaw

➤ Vladimir Lenin

➤ **Voltaire**

➤ Mahatma Gandhi

➤ J. Russo

6. The publisher of 'Banglapedia' is ---

➤ Bangla Academy

➤ **Asiatic Society of Bangladesh**

➤ Dhaka University

- University Press Limited
- UGC

↳ One nautical mile =?

- 2.254 km
- **1.852 km**
- 1.5 km
- 1.472 km
- 0.621 km

♀. Which of the following harmful rays comes out from colour TV?

- **Gama ray**
- Beta ray
- Cosmic ray
- Alpha ray
- X-ray

♂. Which district was first set free from enemy during the liberation war of Bangladesh?

- B. Baria
- **Jessore**
- Sylhet
- Dhaka
- None of these

↗. The book 'Chander Amabashya' is written by ----

- Alauddin Al-azad
- Abul Kalam Shamsuddin
- Rashid Karim
- Akhtaruzzaman Eliyas
- **Syed Waliullah**

↗○. Which of the following country of the European Union has not adopted 'Euro' as yet ---

- **England**
- Germany
- Italy
- France
- Netherland

↗○. The poetry titled 'September on Jessore Road' was written based on liberation war by ----

- **Allen Ginsberg**
- Clinton B. Seely
- C. Coxe
- R. T. Conrad

➤ J. Keble

১২. Where do most of the Manipuri ethnic group people live in Bangladesh?

- Mymensingh
- **Sylhet**
- Rangamati
- Rangpur
- Cox's Bazar

১৩. -----does not belong to the World Bank Group.

- IFC
- **WTO**
- IBRD
- IDA
- ICSID

১৪. Bank rate is the rate of interest

- at which public borrows money from commercial bank
- at which government borrows money from public
- **at which commercial Banks borrow money from the central bank**
- at which commercial Banks borrow money from public
- None of these

National Bank Ltd - MTO- 2010

1. Choose the correct sentence-

- Sabbir tried to found his lost mobile
- Sabbir try to find his lost mobile
- **Sabbir tried to find his lost mobile**
- Sabbir tries to found his lost mobile
- None of these are correct

2. Choose the correct sentence-

- **Except for you and me, everyone had left the meeting room before the circular came**
- Except for you and I, everyone had left the meeting room before the circular came
- Except for you and me, everyone left the meeting room before the circular came
- Except for you and I, everyone left the meeting room before the circular had come
- None of these are correct

3. Choose the correct sentence-

- Two third of the jackfruit have been eaten

- Two third of the jackfruits has been eaten
- Two thirds of the jackfruit have been eaten
- **Two third of the jackfruit has been eaten**
- None of these are correct

4. Choose the correct sentence-

- He hardly does not go there
- He hardly goes there
- **He does not go there hardly**
- Hardly he does fo there
- None of these are correct

5. Select the word that best matches the definition provided. Systematic killing of a racial or cultural group ----

- Regicide
- Patricide
- **Genocide**
- Homicide
- None of these

6. Select the word that best matches the definition provided. A mournful poem written on the death of someone loved and lost ----

- Homage
- Ode
- Saga
- **Elegy**
- None of these

7. Select the word that best matches the definition provided. Longing for something past ----

- Heuristic
- **Nostalgia**
- Outdated
- Pastille
- None of these

8. Select the word that best matches the definition provided. An inclination to do kind or charitable acts ----

- Deference
- Besmirch
- **Benevolence**
- Honorary
- None of these

9. Identification of correct spelling :

- **Miscellaneous**
- Miscelaneous
- Miscelleneous
- Miscellanous
- Misellaneus

10. Identification of correct spelling :

- Comemoratte
- Commemmorate
- Comemmorate
- **Commemorate**
- Comemorate

11. Identification of correct spelling :

- Constelation
- Constelletion
- Consteelation
- Consteellation
- **Constellation**

12. Identification of correct spelling :

- Sunami
- Shunami
- **Tsunami**
- Tsuname
- Psyrmaid

13. Finding the odd one from a list of words:

- Penny-pinching
- Tightfisted
- **Generous**
- Miserly
- Stingy

14. Finding the odd one from a list of words:

- Acme
- Apex
- **Nadir**
- Zenith
- Summit

15. Finding the odd one from a list of words:

- Transparent
- **Obscure**
- Clear
- Limpid
- Lucid

16. Finding the odd one from a list of words:

- Rebuke
- Chide
- Reproach
- **Extol**
- Scold

17. Fill in the gaps : These flowers are not ---- to Bangladesh because these are not found here.

- **indigenous**
- ingenuous
- fluent
- exigent
- None of these

18. Fill in the gaps : I put the camera ----- a tripod so I can take a steady picture.

- by
- above
- in
- **on**
- None of these

19. Fill in the gaps : It is not difficult to ---- an alarm clock.

- **soothe**
- disassemble
- fort
- manual
- None of these

20. Fill in the gaps : The committee chairperson became so forceful, so ---- in his expression of opinions that committee members began to leave the meeting.

- dormant
- credible
- **dogmatic**
- lucid
- None of these

21. Fill in the gaps : The teacher would understand it if you --- it to him more slowly.

- would explain
- had explained
- explain
- **explained**
- None of these

Math

3. If 14 farmers can plough a field in three hours, how long will it take 15 farmers to do the same job?
- 120 minutes
 - **168 minutes**
 - 180 minutes
 - 2.8 hours
 - None of these
4. How many times does the digit '4' come to write numbers from 1 to 100?
- 10
 - 11
 - **19**
 - 20
 - None of these
5. Which of the following is the next number in the series : 2, 4, 3, 9, 4, 16, 5, 25, 6,-----?
- 30
 - **36**
 - 45
 - 35
 - None of these
6. A wristwatch was sold at 10% profit. If the cost was 15% less and the selling price was Tk. 20 less, then the trader would have made a profit of 20%. What was the cost of the wristwatch?
- Tk. 275
 - **Tk. 250**
 - Tk. 212.5
 - Tk. 255
 - None of these
7. In a book store, the sales of a book decreased by 80% from 2007 to 2008. If the sales in 2009 were the same as in 2007, would be the percentage increase in sales from 2008 to 2009?
- 80%
 - 100%

- 200%
- 250%
- **None of these**

↳ Robin has 4 times as many marbles as Azad has and 5 times as many as Kalam has. If Kalam has more than 40 marbles, what is the least number of marbles Robin could have?

- 200
- 205
- 210
- **220**
- None of these

♀. If x is a positive number, 500% of x is what percent of $500x$?

- 0.01%
- 0.1%
- **1%**
- 10%
- None of these

♂. How much longer is required to drive one mile at 60 miles/hour than at 100 miles/hour?

- 30 seconds
- 40 seconds
- 28 seconds
- 25 seconds
- **None of these**

♂. During a sale, a salesperson was putting a new price tag on each item. On one shirt, he accidentally raised the price by 15% instead of lowering the price by 15%. As a result the price on the tag was Tk. 60 higher than the price that would have been the discounted price. What was the original price of the shirt?

- Tk. 220
- Tk. 250
- Tk. 150
- **Tk. 200**
- None of these

♂. Tk. 9,000 is divided among Abu, Rabu, Babu and Habu by 1 : 2 : 3 : 4 ratio. How much money do Rabu and Habu have together?

- Tk. 3,600
- **Tk. 5,400**
- Tk. 4,500
- Tk. 6,300

- None of these

35. Babul attended five tests during the semester and the average of his test scores was 87. If his average score after first three tests were 85, what was the average of his 4th and 5th test?

- 88
- 89
- 90
- 93
- None of these

36. What is the value of $(x+2)(x-3) - (x+5)(x-6)$?

- 18
- 22
- 26
- 30
- None of these

37. In a lottery, 5% of the tickets printed can be redeemed for prizes, and 5% of those tickets have values in excess of Tk. 50. If 6,000 tickets were printed, how many of them can be redeemed for more than Tk. 50?

- 5
- 10
- 15
- 20
- None of these

38. The average age of 15 people is 25 years. Out of them, total age of 2 people is 115 years. What is the average age of the other 13 people?

- 20 years
- 25 years
- 22.5 years
- 57.5 years
- None of these

39. Since 1965 Mr. Ajmal has gained 2 pounds every year. In 1995 he was 40% heavier than what he was in 1965. What percent of his weight in 2010 was his weight in 1995?

- 80%
- 85%
- 87.5%
- 90%

- None of these

୧୮. The number of stamps in Ziko's collection is 75% of the number in Pallab's collection. If Pallab has 80 more stamps than Ziko, how many stamps do they have altogether?

- 320
- 240
- 560
- 620
- None of these

୧୯. The length of a rectangle is 6 feet more than the side of a square and the width of the rectangle is 6 feet less than the side of that square. If the area of the square is 64 sq feet, what is the area of the rectangle?

- 20 sq feet
- 30 sq feet
- 40 sq feet
- 28 sq feet
- None of these

୨୦. Rabeya purchased a TV costing Tk. 10,000 and sold it to Sakib at 10% profit. Later Sakib sold the TV back to Rabeya at 10% loss. How much profit Rabeya made in total from both these transactions?

- Tk. 700
- Tk. 800
- Tk. 900
- Tk. 1,000
- None of these

୨୧. In a business Raj invested Tk. 700 for 5 months. Rafi invested Tk. 500 for 6 months and Rabi invested Tk. 300 for 8 months. If total profit was Tk. 445, how much money will Raj get as his share of profit?

- Tk. 120
- Tk. 150
- Tk. 175
- Tk. 200
- None of these

୨୨. Total price of a shirt and a pant is Tk. 850. If the price of the shirt increases by 12% and the pant by 5% then the total price become Tk. 934.50. What was the original price of the shirt before price increment?

- Tk. 620
- Tk. 650
- Tk. 675

➤ Tk. 600

➤ None of these

১৫. If the annual interest rate decreases from 4% to 3.75%, income of a person reduces by Tk. 60. What is his principal?

➤ Tk. 22,000

➤ Tk. 25,000

➤ Tk. 24,000

➤ Tk. 26,000

➤ None of these

১৬. Seven friends are having lunch together in a fast food shop. Each of them eat at least $\frac{3}{5}$ th of a pizza. What is the smallest number of whole pizzas needed for their lunch?

➤ 7

➤ 5

➤ 6

➤ 28

➤ None of these

১৭. 20 workers can finish a task in 30 days. How many additional workers are needed to finish the same task in 25 days?

➤ 6

➤ 8

➤ 10

➤ 12

➤ None of these

১৮. A class of 120 has 25% girls. If 10% of the boys and 20% of the girls attended a picnic then what percentage of the class attended the picnic?

➤ 20%

➤ 25%

➤ 13%

➤ 12.5%

➤ None of these

১৯. At a fashion house, shirts are sold for 25% less than the tag price. If a shirt costs Tk. 144, what will be the tag price to make a 25% profit on its cost?

➤ Tk. 240

➤ Tk. 180

➤ Tk. 225

➤ Tk. 196

➤ None of these

২৬. Increasing the original price of an item by 20% and then decreasing the price by 20% is equivalent to which of the following?

- 4% decrease
- 5% increase
- Original price
- 5% decrease
- None of these

27. If $-8 \leq x \leq 8$ and $0 \leq y \leq 14$, what is the greatest possible value of $(y-x)$?

- 22
- 8
- 6
- -8
- None of these

GK

১. In which year was the National Bank Ltd. established?

- 1983
- 1985
- 1999
- 2001
- None of these

২. From which date was Value Added Tax (VAT) introduced in Bangladesh?

- January 01, 1991
- July 01, 1991
- January 01, 1992
- July 01, 1992
- None of these

৩. Which of the following organization is concerned with environmental issues?

- OIC
- MIGA
- IPCC
- WMO
- None of these

৪. Which Arab country first recognized Bangladesh as an Independent nation?

- Iraq

- Iran
- Saudi Arabia
- Lebanon
- None of these

8. At present, who is the Prime Minister of Great Britain?

- Gordon Brown
- 2nd Elizabeth
- **David Cameron**
- Nick Clegg
- None of these

9. which one is the largest desert in the world?

- Patagonia desert
- Gobi desert
- Takla desert
- Thar desert
- **None of these**

10. Which country is the defending champion of the world Cup football?

- Brazil
- Argentina
- France
- Italy
- **None of these**

11. What does 'ISP' stand for?

- **Internet Service Provider**
- Information Service Provider
- International Service Program
- Industrial Service Program
- None of these

12. For which literary work was Rabindranath Tagore awarded with the 'Nobel' prize?

- Khanika
- Sonartori
- **Song Offerings**
- Sanchita
- None of these

13. From which country does Bangladesh get its highest Foreign Direct Investment?

- Japan
- The USA

- The UK
- The UAE
- None of these

55. What is the name of the central bank of India?

- Bank of India
- State Bank of India
- Reserve Bank of India
- Federal Bank of India
- None of these

56. Which one is the widest river in Bangladesh?

- The Jamuna
- The Meghna
- The Surma
- The Padma
- None of these

National Bank Ltd - Officer - 2009

1. Select the word, which most appropriately fills in the gap in each sentence : Some people believe that money is the primary ----- that drives individuals.

- effect
- issue
- aspect
- motivator
- sources

2. Select the word, which most appropriately fills in the gap in each sentence : It is a stereotyping ----- that all people prefer basketball as a sport over all others.

- belief
- information
- fact
- reality
- truth

3. Select the word, which most appropriately fills in the gap in each sentence : Frankly, I find it too ----- a situation for him to have berated his child like that.

- Insignificant

- grave
- acute
- delicate
- sensitive

4. Select the word, which most appropriately fills in the gap in each sentence : He ---- pursued the implementation of the project.

- arrogantly
- absolutely
- **doggedle**
- instinctively
- increasingly

5. Select the word, which most appropriately fills in the gap in each sentence : It is an old ----- that says 'Only the wearer known where the shoe pinches.'

- belief
- perception
- person
- notion
- **adage**

6. Synonyms : Select the word that best expresses the quotation word in each sentence. Every individual is responsible for "upholding" the moral of society.

- developing
- judging
- **keeping up**
- maintaining
- None of these

7. Synonyms : Select the word that best expresses the quotation word in each sentence. You can reach your goal only when you "aspire".

- **aim high**
- attempt it
- try
- dream
- None of these

8. Synonyms : Select the word that best expresses the quotation word in each sentence. Read the "abridged" version of the novel to get an overall idea of the book.

- **summarized**
- condensed
- critique's

- accurate
- None of these

9. Synonyms : Select the word that best expresses the quotation word in each sentence. In comparison to the history of the world, human life is very "transient".

- Meaningless
- poignant
- **short-lived**
- arbitrary
- None of these

10. Synonyms : Select the word that best expresses the quotation word in each sentence. Employers look for "agility" in workers in small part production plants.

- dexterity
- flexibility
- liveliness
- **alertness**
- None of these

11. Select on option that best expresses a relationship similar to that expressed in the original pair. **LAZY**

: INDOLENT

- Introvert : Sociable
- Work : Toil
- Novice : Veteran
- **Stubborn : Inflexible**
- None of these

12. Select on option that best expresses a relationship similar to that expressed in the original pair.

EVIDENCE : PROVE

- Facts : Establish
- Illustration : Justify
- Data : Measure
- **Fortification : Defend**
- Weapon : Attack

13. Select on option that best expresses a relationship similar to that expressed in the original pair.

CRIME : PUNISHMENT

- Fun : Enjoyment
- Collection : Set
- Theft : Law
- Robbery : Police
- **Misdeed : Penalty**

14. Select on option that best expresses a relationship similar to that expressed in the original pair.

SOW : HARVEST

- Reap : Autumn
- Grow : Field
- **Plant : Yield**
- Crop : Seed
- Spread : Seed

15. Select on option that best expresses a relationship similar to that expressed in the original pair.

FLOCK : BIRDS

- Pool : Water
- **Pack : Wolves**
- Stray : Dogs
- Zoo : Animals
- None of these

16. Identifying Correct Sentence : SET 1

- It is further from here.
- It is still further from here.
- What you say is fur from the truth
- **It is far from here.**
- None of these

17. Identifying Correct Sentence : SET 2

- Beside being clever, she is very perceptive.
- **Besides being clever, she is very perceptive.**
- Beside being clever, she is also perceptive.
- Asides being clever, she is very perceptive.
- None of these

18. Identifying Correct Sentence : SET 3

- **It is neither true nor valid.**
- It is not true and nor valid.
- It is nor true and definitely not valid.
- It is neither true or valid.
- None of these

19. Identifying Correct Sentence : SET 4

- You have achieve much more than expected.
- You achieved much more than expected.
- You have achieved too much more than we expected.
- **You have achieved more than we expected.**

- None of these

20. Identifying Correct Sentence : SET 5

- **Actions speak louder than words**
- An action speak louder than words
- The actions speak much louder than words
- Action speak louder than words
- None of these

Math

3. The price of a DVD Player is discounted by 10 percent, and the reduced price is then discounted again by 10 percent. The series of successive discounts is equivalent to a single discount of ----

- 20%
- **19%**
- 18%
- 11%
- None of these

4. If k is divisible by 3, 9 and 12, which of the following is also divisible by these numbers?

- $k + 15$
- $k + 35$
- $k + 45$
- **$k + 72$**
- None of these

5. Basar bought equal numbers of 50-paisa and 75-paisa stamps. If the total cost of the stamps was Tk. 50.00, what was the total number of stamps bought?

- 25
- 34
- 40
- **80**
- None of these

6. Each of two groups of tourists has 60 people. If three-fourth of the first group and two-third of the second group board buses to travel to a museum, how many more people of the first group board buses than that of the second group?

- **5**
- 6
- 10
- 15

➤ None of these

↳ If an integer y is subtracted from an integer x , and the result is greater than x , then y must be :

➤ Equal to x

➤ **Less than 0**

➤ Less than x

➤ Greater than 0

➤ None of these

↳ A two-digit number has 3 in its unit digit. The sum of its digits is one-seventh of the number itself.

What is the number?

➤ 73

➤ **63**

➤ 53

➤ 83

➤ None of these

↳ The total cost of a bouquet of roses at a flower shop depends on the number of roses ordered. The vase costs \$5, and each rose costs \$2.25. Which equation can be used to find ' c ', the total cost of a bouquet with ' r ' roses?

➤ $c = (5 + 2.25)r$

➤ $c = 5r + 2.25$

➤ **$c = 5 + 2.25r$**

➤ $c = 5 + (5-2.25)r$

➤ None of these

↳ If 6 workers can complete 9 identical jobs in 3 days, how long (in days) will it take 4 workers to complete 10 such jobs?

➤ **5**

➤ 4

➤ 6

➤ 3

➤ None of these

↳ The area of a rectangle R with width 4 feet is equal to the area of a square S, which has a perimeter of 24 feet. The perimeter of the rectangle R, in feet, is :

➤ 9

➤ 16

➤ 24

➤ **26**

➤ None of these

30. If $y = (3x - 6)/x$, then for what values of x , y will be positive?

- **x>2 or x <0**
- $x>0$
- $x<0$
- $-2 < x < 2$
- None of these

31. Six consecutive whole numbers are given. The sum of the first three numbers is 27. What is the sum of the last three numbers?

- **36**
- 33
- 32
- 30
- None of these

32. 120 students in a class play cricket or football or both. If 75 students play cricket and 60 students play football, how many play both?

- **15**
- 16
- 76
- 38
- None of these

33. Three boys have marbles in the ratio of 19 : 5 : 3. If the boy with the least number has 9 marbles, how many marbles does the boy with the highest number have?

- **57**
- 15
- 76
- 38
- None of these

34. After taking 30 socks out of the washing machine, Shamim noticed that the ratio of blue socks to brown socks to black socks was 2:3:5. How many black socks were in the washing machine?

- 21
- **15**
- 9
- 6
- None of these

35. If $b < 2$ and $2x-3b=0$, which of the following must be true?

- $x > -3$
- $x < 2$

- $x=3$
- $x < 3$
- None of these

58. If an inspector rejects 0.08% of a product as defective, how many units of the product will be examined in order to reject 2?

- 1500
- 500
- 2000
- **2500**
- None of these

59. Ms. Zareen purchased stock for Tk. 15,000 and $\frac{2}{3}$ of it after its value doubled. She sold the remaining stock at 5 times its purchase price , what was her total profit?

- Tk. 15,000
- Tk. 20,000
- Tk. 25,000
- **Tk. 30,000**
- None of these

60. A car goes 15 miles on a gallon of octane when it is driven at 50 miles per hour. When the car is driven at 60 miles per hour, it only goes 80% as far. How many gallons of octane is needed to travel 200 miles if half the distance is traveled at 50 miles per hour and the rest at 60 miles per hour?

- 13.33
- 16.67
- 10.6
- **15**
- None of these

61. The sum of two numbers is 56. If three times of the smaller number is one-half of the larger number, what is the larger number?

- 16
- 7.5
- 4
- **48**
- None of these

62. Mr. Zaman is insured completely for Tk. 1,50,000 against damages to his machinery. For any damage over Tk. 1,50,000 the insurance company will pay Tk. 1,50,000 plus 15% of the additional damage. For a recent accident, Mr. Zaman was paid Tk. 1,56,000 by the insurance company. What was the total amount to the damage estimated?

- Tk. 1,04,000

- Tk. 90,000
- Tk. 40,000
- Tk. 80,000
- **None of these**

GK

3. The country which ranks second in terms of land area is :

- China
- **Canada**
- Russia
- USA
- None of these

4. Who is the current governor of Bangladesh Bank?

- Dr. Fakhruddin Ahmed
- Dr. Farashuddin
- Dr. Salehuddin Ahmed
- **Dr. Atiur Rahman**
- None of these

5. According to ADB/World bank, the expected GDP growth rate of Bangladesh in the current fiscal year is expected to be close to :

- 9%
- 8%
- 7%
- **5%**
- None of these

6. What does NBFI stand for?

- **Non-Bank Financial Institution**
- Neo-Bangla Funding Institution
- Non-Bangladeshi Formal Industries
- Non-Banking Foreign Institution
- None of these

7. The current inflation rate of Bangladesh is close to which of the following?

- **5%**
- 6%
- 7%

➤ 8%

➤ None of these

↳ Which organization tries to find solutions to world problems and disputes?

➤ **The United Nations**

➤ IMF

➤ UNICEF

➤ Green Peace

➤ None of these

q. The largest ocean of the world is the ----

➤ Antarctic

➤ Atlantic

➤ Indian

➤ **Pacific**

➤ None of these

↳ The world's largest diamond producing country is :

➤ South Africa

➤ Saudi Arabia

➤ USA

➤ Switzerland

➤ **None of these**

↳ The first Prime Minister of Bangladesh was ---

➤ Sheikh Mujibur Rahman

➤ syed Nazrul Islam

➤ AHM Kamruzzaman

➤ Dr. Kamal Hossain

➤ **None of these**

↳ The permanent secretariat of the SAARC is located at ---

➤ Dhaka

➤ Thimpu

➤ Mumbai

➤ **Kathmandu**

➤ None of these

↳ The first industrial revolution took place in ----

➤ USA

➤ **England**

➤ France

➤ Germany

➤ None of these

52. "Paradise Regained" was written by ---

- Lord Byron
- William Shakespeare
- **John Milton**
- Percy Bysshe Shelley
- None of these

50. The first woman Prime Minister of Britain was :

- Golda Meir
- Gro Harlem Brundtland
- Dame Eugenia Charles
- **Margaret Thatcher**
- None of these

58. Money appears to have a major influence on :

- inflation
- the business cycle
- interest rates
- **all of these**
- None of these

56. An increase in the growth rate of the money supply is most likely to be followed by :

- Recession
- a decline in economic activity
- **Inflation**
- all of these
- None of these

56. When you purchase shares of corporate stock, then ----

- You have loaned money to the corporation
- **You own part of the corporation**
- You have made new funds available to the corporation
- All of the above
- None of these

59. The name of the strand of virus, known as 'swine flu' virus, that has been declared as a pandemic worldwide is :

- H1N2
- H2N2
- H2N1
- **H1N1**

- None of these

28. Which city is known as the Pink City?

- Tokyo
- **Joypur**
- Delhi
- Beijing
- None of these

29. NBFIs constitute of which of the following?

- banks and leasing firms
- **leasing firms and insurance companies**
- banks and insurance firms
- banks, leasing firms and insurance companies
- None of these

30. Olympic 2012 will be held in -----

- **London**
- Paris
- New York
- Beijing
- None of these

One Bank Ltd - Special Cadre Officer - 2017

1. In 1609 Galileo 'constructed' the first telescope, 'whom' he used to 'discover' the four largest 'satellites' of Jupiter.

- constructed
- **whom**
- discover
- satellites

2. Many employers are unable to express any opinion about 'which' local schools prepare 'they' students best of about 'what' changes 'they' would make in educational programs.

- which
- **they**
- what
- they

3. If one lives a 'disorganized', 'pollution', crime-ridden world, 'one's' energies will be 'directed' at simple survival.

- disorganized
- **pollution**
- one's
- directed

4. Silver, one of the first 'metal' used by 'humans' is an 'excellent' conductor of heat and 'electricity'.

- **Metal**
- humans
- excellent
- electricity

5. When an object is 'heated' the molecules 'move faster', and the faster 'they move', 'the hot' the object.

- heated
- move faster
- they move
- **the hot**

6. Select the lettered word that is most nearly opposite in meaning to the word capital letters. **CRASS**

- demanding
- florid
- **refined**
- fair

7. Select the lettered word that is most nearly opposite in meaning to the word capital letters. **ORIENT**

- hasten
- defile
- **confuse**
- decline

8. Select the lettered word that is most nearly opposite in meaning to the word capital letters. **DIATRIBE**

- sermon
- discourses
- **eulogy**
- lecture

9. Select the lettered word that is most nearly opposite in meaning to the word capital letters.

EFFEMINACY

- aggressiveness
- attractiveness
- **manliness**
- boorishness

10. Select the lettered word that is most nearly opposite in meaning to the word capital letters. **BOLSTER**

- condense
- undermine
- **disprove**
- cancel

11. Select the pair that expresses a relationship similar to that expressed in the original pair.

DEPORT : NATION :

- **expel : school**
- boycott : store
- confine : prison
- colonize : frontier

12. Select the pair that expresses a relationship similar to that expressed in the original pair.

ITINERARY : TRIP :

- lottery : chance
- signal : light
- **agenda : meeting**
- railroad : transportation

13. Select the pair that expresses a relationship similar to that expressed in the original pair.

SEDATIVE : DROWSINESS :

- epidemic : contagiousness
- vaccine : virus
- laxative : drug
- **anesthetic : numbness**

14. Select the pair that expresses a relationship similar to that expressed in the original pair.

LIONIZE : ADMIRE :

- authorize : betray
- aggrandize : envy
- exonerate : suspect
- **vituperate : despise**

15. Select the pair that expresses a relationship similar to that expressed in the original pair.

TACT : OFFENSIVE :

- **manners : sincere**
- money : poor
- speech : illiterate
- wine : sober

16. Bandarban, always a popular tourist destination, is well known for its abundance of -----

- beautiful sceneries

➤ beautifuls scenery

➤ sceneries of beautiful

➤ **beautiful scenery**

17. Nimbus clouds generally have ----and are amorphous in appearance.

➤ an uniform dark color

➤ **a uniformly dark color**

➤ uniformly the dark color

➤ uniform dark color

18. Interest is a device ----- to functions in the economy.

➤ **that serves**

➤ that it serves

➤ serves

➤ can be served

19. In a retail store, consumers ----the merchandise and compare brands.

➤ could inspected

➤ can be inspected

➤ can inspecting

➤ **can inspect**

20. Mule deer -----a wide variety of twigs, grass, berries, and fruit.

➤ eating

➤ has eaten

➤ used to eating

➤ **are used to eating**

Math

5. If $d=2.0453$ and d^* is the decimal obtained by rounding d to the nearest hundred what is the value of d^*-d ?

➤ -0.0053

➤ -0.0003

➤ 0.0153

➤ **None of these**

6. If the numbers $17/24$, $1/2$, $3/8$, $3/4$ and $9/16$ were ordered greatest to least, the middle number of the resulting sequence would be ---

➤ $3/9$

➤ $3/4$

➤ 9/16

➤ None of these

၁၉. A boy was asked to multiply a number by $\frac{7}{8}$, instead he divided the number by $\frac{7}{8}$ and got the result $\frac{15}{14}$ more than he should have got if he had multiplied the number by $\frac{7}{8}$. the number is ----

➤ 4

➤ 6

➤ 8

➤ None of these

၂၀. The average of a group of 10 students is 15 years. When 5 more students joined the group, the average age rose by 1 year. What is the average age of the newly joined students?

➤ 16

➤ 17

➤ 18

➤ 19

၂၁. What is the perimeter, in meters, of a rectangular garden 6 meters wide that has the same area as a rectangular playground 16 meters long and 12 meters wide?

➤ 60

➤ 76

➤ 192

➤ None of these

၂၂. A corporation that had Tk. 115.19 billion in profits for the year paid out Tk. 230.10 million in employee benefits . Approximately what percent of the profits were the employee benefits?

➤ 50%

➤ 0.2%

➤ 20%

➤ 5%

၂၃. Two banks offer interest rate of 6% and 7% respectively on savings account. Mr. Faruq deposited a total amount of Tk. 4000 in the banks and in one year his interest income was Tk. 250. Find the deposit in the bank with 7% interest rate?

➤ 3000

➤ 2000

➤ 1500

➤ 1000

၂၄. If $\frac{3}{x}=2$ and $\frac{y}{4}=3$, then $\frac{3+y}{x+4}=?$

➤ 30/11

➤ 10/9

➤ 9/10

➤ None of these

↳ Of the total amount that Jill spent on a shopping trip, excluding taxes, she spent 50% on clothing 20% on food, and 30% on other items. If Jill paid 4% tax on clothing , on tax on the food, and an 8% tax on all other items, then the total tax that she paid was what percent of the total amount that she spent, excluding taxes?

➤ 3.6%

➤ **4.4%**

➤ 5.2%

➤ None of these

↳ Company C produces toy trucks at a cost of Tk. 5 each for the first 100 trucks and Tk. 3.5 for each additional truck. If 500 toy trucks were produced by the company C and sold for Tk. 10 each, what was company C's gross profit?

➤ Tk. 3500

➤ Tk. 3250

➤ **Tk. 3100**

➤ None of these

↳ If Z is open, which of the following must be true?

➤ S is open

➤ T is open

➤ U is open

➤ **y is open**

GK

↳ Mr. Fazle Kabir is the -----Governor of Bangladesh Bank.

➤ 10th

➤ **11th**

➤ 12th

➤ None of these

↳ which of the following day is observed in Bangladesh as 'Genocide Day'?

➤ 14th December

➤ 16th December

➤ **25th March**

➤ None of these

↳ Bangladesh won the 100th Test Cricket match against Sri Lanka by -----

➤ 90 runs

- 6 wickets
- 115 runs
- 4 wickets

8. One of the best-selling books 'Seven Heats of Highly Effective People' was written by :

- J.K. Rowlings
- R. Steven Covey
- Warren Buffet
- Bill Gates

9. the foreign currency reserve of Bangladesh Bank as on 31th December 2016 was :

- \$35.08 billion
- \$32.09 billion
- \$33.12 billion
- \$28.67 billion

10. In World Happiness Report 2017 Bangladesh is ranked -----.

- 109th
- better than Sri Lanka
- 120th
- 122th

One Bank Ltd - Special Cadre Officer - 2012

1. "Inevitably" scholars disagree on "an" authenticity of many objects whose "origins" are "unknown". Find error.

- Inevitably
- an
- origins
- unknown
- NO error

2. Small animals can "survive" the desert heat "by finding" shade "during" the "daytime." Find error

- by
- shade
- the
- No error

3. A budget is a plan "that" estimates how much "money" will be spent, "what" it will be spent on, and how much money "is" left over. Find error

- that

➤ money

➤ what

➤ **is**

➤ No error

4. "It" is "the" dream of every "mountaineers" to climb the world's "highest" peak. Find error

➤ It

➤ the

➤ **mountaineers**

➤ highest

➤ NO error

5. A thing kept in the memory of a person

➤ **memento**

➤ epitaph

➤ elegy

➤ gift

➤ emblem

6. A place where everything is perfect

➤ Heaven

➤ platoon

➤ Cosmos

➤ **Utopia**

➤ Utilitarian

7. A person who speaks for other

➤ Reporter

➤ **Spokesman**

➤ Alien

➤ Supporter

➤ Representative

8. Expand: Volume

➤ ascend:flight

➤ proliferate:number

➤ bend : flexibility

➤ **cool : temperature**

➤ deflect : heading

9. Relevant : Crucial

➤ marginal : unique

➤ **perceptible : obvious**

- apparent : real
- peripheral : central
- possible : desirable

10. Coward : Brave

- hero : cynical
- martyr : impatient
- philanthropist : selfish
- **agnostic : intuitive**
- traitor : careful

11. The passage is mainly about -

- the cost of diamonds
- **qualities affecting diamond values**
- how to judge an expensive diamond
- buying diamonds for jewelry
- none of the above

12. What can be said about a 1 carat diamond-

- It has 100 points
- It weighs an ounce
- It costs twice as much as a smaller one
- It has the same quality as a half - carat diamond
- **Both (a) and (b)**

13. It can be inferred from the passage that a stone rated "H" is -

- **good for jewelry**
- good for investment
- very colorful
- deep yellow
- colorless

14. Clarity of a stone-

- is invisible to the unaided eye
- affects the diamond's brilliance
- has spots, flaws, and blemishes
- is determined by imperfections
- **all of the above**

15. All of the following ratings refer to the clarity of a stone EXCEPT-

- **perfection**
- very slight imperfection
- slight imperfection

- imperfection
- none of the above

Math

1. If $\frac{1}{3}$ of the workers in an office are smokers, what is the ratio of smokers to nonsmokers?

- 2: 5
- 2 : 1
- 1 : 2
- 2 : 3
- 3 : 2

2. If the average of 4, 5, 6 and P is 7, what is the value of P?

- 8
- 12
- 15
- 13
- 14

3. If $\frac{1}{x} + y = 4$, then $x = ?$

- $\frac{1}{4} - y$
- $4 + y$
- $\frac{1}{4} + y$
- $4 - y$
- $4.5 + y$

4. If $P : Q = 3:2$, $P : R = 2: 7$, then what is the value of $Q : R$?

- 3 : 7
- 2 : 7
- 4 : 21
- 4 : 9
- 3 : 5

5. If $a^2 + b^2 = 10$ and $a^2 - b^2 = 8$, what is the value of ab?

- 1
- root 2
- 2
- 4
- none of these

6. In the triangle beside, what is the value of X?

- 35 degree
- 40 degree
- 45 degree
- 60 degree
- 75 degree

q. What is the volume of a cube whose surface area is 96 ?

- 50
- 64
- 72
- 86
- 76

br. Suppose $X = \frac{1}{3} y$, $y = \frac{2}{3} r$ and $r = \frac{3}{4} s$, what would be the value of y as a fraction a of s?

- $\frac{1}{2}$
- $\frac{2}{3}$
- $\frac{3}{4}$
- $\frac{1}{4}$
- $\frac{1}{3}$

bs. Which of the following ratios is the smallest ?

- 7 : 15
- 15 : 23
- 17 : 25
- 21 : 29
- 9 : 11

bo. Mr. Selim sold his cow of for TK. 30,000 at a 20% gain . Find the cost price .

- 20,000
- 22,000
- 25,000
- 27,000
- 24,000

bs. 'A' can do a work in 20 days while "B" can do it in 30 days . 'A' and 'B' working together can do it in-

- 10 days
- 12 days
- 15 days
- 18 days
- 14 days

bs. What rate of interest per year was paid. if TK. 50,000 earned Tk. 1,000 as interest in 2 years -

- 2%

- 3%
- 1%
- 4%
- 6%

50. A train 100 m long passes a bridge at the rate of 72 km per hour in 25 seconds. The length of the bridge is-

- 150 m
- 250 m
- 300 m
- 400 m
- 450 m

51. The average of first five prime numbers is -

- 4.5
- 5.5
- 5.6
- 6.5
- 7.5

52. what percent of $\frac{2}{3}$ is $\frac{1}{25}$?

- 20
- 25
- 5
- 10
- 15

53. What is the cost price of a shirt which is sold at a loss of 20% for Tk. 320?

- 450
- 400
- 500
- 520
- 350

54. A sum of money will triple itself in 20 years at simple interest with yearly rate of -

- 5%
- 7.5%
- 10%
- 12%
- 8%

55. How many $\frac{1}{4}$'s are there in $4\frac{1}{2}$?

- 170

- 280
- 180
- 120
- **190**

১৯. A school has a total enrollment of 90 students. There are 30 students taking physics, 25 taking English, and 13 taking both. What percentage of the students is taking either physics or English?

- 30%
- 36 %
- **47 %**
- 51 %
- 58 %

২০. The ratio of two number is 3 : 5 and their sum is 640 . The greater of the numbers is-

- 240
- **400**
- 480
- 520
- 300

২১. During 2011, advertising expenditures on canned food products increased by 20 percent, while canned food consumption rose by 25 percent. Each of the following if true, could help to explain the increase in food consumption EXCEPT-

- Advertising effectiveness increased
- Canned food prices decreased relative to substitutes
- Canned food producer were available in more stores
- **Can opener production doubled**
- per-caption consumption of frozen foods declined

২২. In 1980, there were , on the average 10 deaths at birth (infant mortality) per 10,000 population. By 1990 , there were 8.5 and by 2000, 7.0 Today there were 5.5 deaths at birth per 10,000 population , and it is anticipated that the downward trend will continue.Each of following , if true, would help to account for this trend EXCEPT

- Medical care is more widespread are available.
- **Sanitary conditions have improved.**
- More effective birth control methods have been implemented.
- The number of pediatricians per 10,000 population has increased.
- Midwifery has declined has declined in favor of medical doctors.

২৩. What is the cost price of a shirt which is sold at a loss of 20% for Tk. 320?

- 450
- **400**

- 500
- 520
- 350

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- 7.5%
- 10% **10%**
- 12%
- 8%

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- 170
- 280
- 180
- 120
- 190 **190**

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- 36 %
- 47% **47 %**
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- 58 %

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- 400 **400**
- 480
- 520
- 300

32. During 2011, advertising expenditures on canned food products increased by 20 percent, while canned food consumption rose by 25 percent. Each of the following if true, could help to explain the increase in food consumption EXCEPT-

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GK+Mental ability

১. For every novel in the library there are 2 science books, for each science book there are 7 economics books. Express the ratio of economics books to science books to novels in the library as a triple ratio.

- 7 : 2 : 1
- **7 : 1 : 2**
- 14 : 7 : 2
- 14 : 2: 1
- 14 : 1 : 2

২. Fill in the missing number of the series 3 , 8 , 18, 38 , --- , 158

- 60
- 65
- 67
- **78**
- 76

৩. Which number is appropriate in place of question mark?

- 40
- **42**
- 13
- 58
- 15

৪. In the figure , the product of any two numbers in adjacent circles is equal to the product of the two numbers that are opposite those circles.What is the value of h?

- 3
- 8
- **12**
- 16

➤ 20

❖ Select an appropriate term that completes the series L p F, N q G, P r H , R s I, --

- m P m
- **R t J**
- t T j
- T T J
- None of the above

❖ Ten books are arranged in a row following a certain sequence. Among them 3 are History , 3 are Economics, 2 are Maths and 2 are English. From the left, there is an English book between a History and Maths book, a history book between a Maths and an English book, an Economics book between an English and a Maths Book. a Maths book between two Economics books and two Economics two Economics book between a Maths and a History book. Book of which subject is at the sixth position from the left?

- English
- Economics
- History
- **Mathematics**
- None of the above

❖ Twenty-seven persons attended a party. Which one of the following statements can never be true?

- There is a person in the party who is acquainted with all the twenty -six others.
- Each person in the party has a different number of acquaintances.
- There is a person in the party who has an odd number of acquaintances
- In the party, there is no set of three mutual acquaintances.
- **None of the above.**

❖ Eva is three times older than Jibon. Zaheer is half the age of Wahida. Jibon is older than Zaheer .

From this information, which of the following can be inferred?

- Eva is older than Wahida.
- Jibon is older than Wahida.
- **Eva may be younger than Wahida.**
- Jibon and Wahida are at same age .
- None of the above

❖ A number for each figures are given from 1 to 9 . Find out the best method of classification and identify this among st the four alternatives.

- (1, 3 ,5) , (2 ,6 , 9), (4 , 7, 8)
- (2 , 3 , 4),(5, 6 ,8),(9, 1 ,7)
- **(1 , 3 ,5), (2 ,6 , 8), (4, 7 ,9)**
- (3, 2 , 4) ,(6 , 5 , 8) , (7 , 9 ,1)

- None of the above

50. The following figure consists of twenty -seven cubes. How many cubes will get closed on all sides by other cubes?

- 1
- 3
- 6
- 9
- 2

51. Insulin is secreted in

- Pituitary
- Liver
- **Pancreas**
- Parathyroid
- Kidney

52. Which countries are not included in D -8 Countries?

- **India, Nepal, Sri Lanka**
- Egypt, Indonesia, Iran
- Banglades, Nigeria, Pakistan
- Bangladesh, Pakistan, Turkey
- Bangladesh, Nigeria, Pakistan

53. Which country within EU still does not use Euro as its currency?

- France
- Germany
- Austria
- **England**
- Italy

54. The first Nam summit was held in -

- **Belgrade**
- Havana
- New Delhi
- Jakarta
- Cairo

55. The Swedish Academy awarded the 2012 Nobel prize in Literature to -

- Alvin Roth
- Loyd Shapely
- **Mo yan**
- Toni Morrison

- Tomas Transtromer

58. First published novel of Sunil Gangopadhyay was -

- Eka O Koyekjon
- Jugalbondi
- **Atmaprakash**
- Aranyer Dinratri
- Anno Jibonner Shad

59. The lady to win the Wimbledon title successfully nine times was-

- Monica Seles
- **Steffi Graf**
- Martina Navratilova
- Chris Evert Lloyed
- Serena Williams

60. In which of the following novels Charles Dickens is most autobiographical?

- Great Expectations
- **David Copperfield**
- Old Curiosity shop
- Oliver Twist
- A Tale of Two Cities

Standard Bank Ltd - Trainee Asst. Officer - 2016

1. Choose the word which is most nearly opposite in meaning to the word given. LUCID

- Ornate
- Arrogant
- **Obscure**
- Embroiled

2. Choose the word which is most nearly opposite in meaning to the word given. ENIGMATIC

- Frenetic
- **Unambiguous**
- Genuine
- Antagonistic

3. Choose the word which is most nearly opposite in meaning to the word given. ALOOFNESS

- **Concern**
- Exaggeration

- Complacency
- Simplicity

4. Choose the word which is most nearly opposite in meaning to the word given. CONCATENATE

- Disclaim
- Impede
- Derail
- **Unlink**

5. Find out which quotation parts of the following sentences has an error. when an object 'heated'. The molecules 'move faster' and the faster 'the move', the 'hot' object.

- heated
- move faster
- they move
- **hot**

6. Find out which quotation parts of the following sentences has an error. Thomas Edison's 'the most' significant contribution was his development of 'the first' practical light bulb and his design for a 'complete' 'electrical' distribution system for lighting.

- the most
- the first
- **complete**
- electrical

7. Find out which quotation parts of the following sentences has an error. 'when' the sun is setting is Dhaka, on the directly 'side opposite' of the earth New York 'is just emerging' 'into sunlight'.

- when
- side opposite
- **is just emerging**
- into sunlight

8. Find out which quotation parts of the following sentences has an error. Trenches in the ocean floor are of 'great interest' because they are lines 'where' the earth crust often is 'so weak' to resist the impact of 'frequent earthquakes'.

- great interest
- where
- **so weak**
- frequent earthquakes

9. Choose the appropriate word which can be substituted for the given sentence: A funny imitation of a poem

- Counterfeit
- Sonnet

➤ Caricature

➤ **Parody**

10. Choose the appropriate word which can be substituted for the given sentence: To break off proceedings of a meeting for a time

➤ Convene

➤ Terminate

➤ **Adjourn**

➤ Procrastinate

11. Choose the appropriate word which can be substituted for the given sentence: One who resides in a country of which he is not a citizen

➤ Alien

➤ Native

➤ **Foreigner**

➤ Prodigal

12. Fill in the blanks: they fired upon the enemy from behind trees, walls and any other ---point they could find.

➤ conspicuous

➤ definitive

➤ **vantage**

➤ indefensible

13. Fill in the blanks: Some student are ----and want to take only courses for which they see immediate value.

➤ theoretical

➤ **pragmatic**

➤ impartial

➤ idealistic

14. Fill in the blanks: The first forty years of life give us the text; the next thirty supply the -----.

➤ abridgement

➤ bibliography

➤ epitaph

➤ **commentary**

15. Fill in the blanks: this island is a colony; however, in most matters, it is ----and receives no orders from the mother country.

➤ **autonomous**

➤ amorphous

➤ distant

➤ submissive

Math

5. If a number is divisible by 102 then it is also divisible by which of the following number?

- 2
- 3
- 17
- All of these

6. All 120 students in a class play cricket or football or both, 75 play cricket and 60 play football. How many students play both?

- 13
- 15
- 20
- 25

7. In a group of 4 people, the height of the group members are 5 feet 4 inches, 5 feet, 5 feet 6 inches, and 4 feet 10 inches. The average height of the group members is :

- 5 feet
- 5 feet 1 inches
- 5 feet 2 inches
- 5 feet 3 inches

8. If $x+y=4$ and $y+z=8$ and $z+x=6$, then $2x-y-z=?$

- 2
- 5
- -3
- None of these

9. Son's age is now one third of father's age. In 12 years from now son's age will be one half of father's age. What is the son's age

- 6
- 10
- 12
- 24

10. A typist can type 125 pages, 36 lines each, 11 words in each line in 5 days. How many pages of 30 lines each and 12 words to each line can he type in 6 days?

- 160
- 165
- 170
- 175

q. what is the total interest on Tk. 800 at 12.5% per annum for 9 months?

- 68
- 75
- 88
- 110

b. A radio costs a shopkeeper Tk. 64. At what price must he sell it if he is to make a profit of 20% on the selling price?

- 76.80
- 78
- 80
- 84

d. 5% merchandise of a trader was stolen and another 5% was damaged during transportation. At what profit (in %) should he sell the rest of the merchandise so that he can make an overall profit of 20%?

- 22.25%
- 27.50%
- 30%
- 33.33%

so. If the area of a square increase by 69%, then side of the square increases by ---

- 13%
- 29%
- 30%
- 69%

ss. Marathon is to race as hibernation is to

- winter
- bear
- dream
- sleep

ss. A, Q, Y, Z are different persons. Z is the father of Q, A is the daughter of Y and Y is the son of Z, If P is the son of Y and B is the brother of p then how is related A to B?

- sister
- father
- mother
- daughter

so. Find the missing number of the following series. 212, 179, 146, 113?

- 32
- 33
- 63

➤ 80

↳ 8. If APPLE converts to ELPPA then 256478 would be?

- 648725
- 845267
- 467825
- **874652**

GK

↳ 1. Who wrote the line "A thing of beauty is a joy forever"?

- P.B Shelley
- William Wordsworth
- **John Keats**
- Robert Browning

↳ 2. The Panama Canal links

- Canada with Greenland
- North America with South America
- Siberia with Greenland
- **None of the above**

↳ 3. Man cannot survive without taking minimum amount of -----

- Carbohydrate
- fat
- **Protein**
- minerals

↳ 4. Which of the following is the capital of Portugal?

- Valetta
- Dublin
- Prague
- **Lisbon**

↳ 5. In which of the following group of ICC Under-19 World Cup Cricket Tournament 2016 Bangladesh will play?

- A
- B
- C
- D

↳ 6. Which of the following blood groups is a universal recipient?

- A
- B
- AB
- O

৭. Which of the following SAARC countries has highest birth rate of population?

- Bangladesh
- India
- Pakistan
- Afghanistan

৮. The shortest day (longest night) in the southern hemisphere is

- June 21
- December 21
- December 22
- June 20

৯. Which of the following is an Island sea?

- Caribbean Sea
- Caspian Sea
- Red Sea
- Yellow Sea

১০. The largest country of the world is ---

- Russia
- Vatican City
- Australia
- USA

Standard Bank Ltd - Trainee Asst. Officer - 2013

১. এক কথায় প্রকাশ করুন : 'যে শুনেই মনে রাখতে পারে'।

- মেধাৰী
- অশ্রুপূর্ব
- শ্রতিধৰ
- জাতিঃস্ম
- কোনটিই নয়

২. বাগধারার অর্থ নির্ণয় করুন : 'বাঘের চোখ'।

- দুঃসাধ্য বস্ত

- ভয়ানক বন্ত
- অমূল্য সম্পদ
- অসন্তব বন্ত
- কোনটিই নয়

৩. সঞ্চি বিচ্ছেদ করুন : 'তদবাধি'।

- তদ + বাধি
- তদ + অবাধি
- তদো + বাধি
- **তৎ + অবাধি**
- কোনটিই নয়

৪. বাংলা সাহিত্যের কোন যুগে কবিরা অনুবাদ সাহিত্যে হাত দেন?

- প্রাচীন যুগে
- **মধ্যযুগে**
- আধুনিক যুগের প্রারম্ভে
- আধুনিক যুগের মধ্যযুগে
- কোনটিই নয়

৫. বাংলা ভাষায় ব্যবহৃত যতিচিহ্ন গুলির কতটি বাক্যের শেষে বসে?

- ১
- ২
- **৩**
- ৪
- কোনটিই নয়

৬. বাংলা বর্ণমালায় মাত্রাহীন বর্ণ কতটি?

- ৩৯টি
- ৩২টি
- ৮ টি
- **১০ টি**
- কোনটিই নয়

৭. প্রথম সার্থক বাংলা উপন্যাসের রচয়িতা কে?

- **বকিমচন্দ্র চট্টোপাধ্যায়**
- মীর মশাররফ হোসেন
- সৈশ্বরচন্দ্র বিদ্যাসাগর
- মাইকেল মধুসূদন দত্ত
- কোনটিই নয়

৮. শরৎচন্দ্রের প্রথম সাহিত্যকর্ম কোনটি?

- **মন্দির**
- বড়দিদি

- শ্রীকান্ত
- মেজদিদি
- কোনটিই নয়

English

1. Choose the correct spelling.

- Reunin
- Riunion
- **Reunion**
- Riunion
- Reunioon

2. Choose the correct spelling.

- Aacess
- Aaccess
- Acces
- Acess
- **Access**

3. Choose the correct spelling.

- **License**
- Licensie
- Liesence
- Licents
- Liecence

4. "In some months of the year, insects are real nuisance, especially mosquitoes." Which correction should be made to this sentence?

- change 'aer' to is
- insert 'a' before 'real'
- remove 'comma' after 'year'
- insert 'the' before 'mosquitoes'
- **replace 'in' with 'at'**

5. The prize competition was 'touted' as a showcase for new technology, but instead the competition was marred by disqualifications and disputes. The quotation word can be best substituted with which of the following words?

- promising
- concocted

- heralded
- disappointing
- **conceived**

6. "It was difficult for us to find your address." If you rewrote the sentence beginning with 'We had',

What should the next words in the sentence be?

- problem to find your address
- to find your address in difficulty
- **difficulty in finding your address**
- difficulty for us to find your address
- difficulty to find your address

7. The rise in the prices made it ----for her to sell her share for a nice profit.

- None of these
- advised
- meditated
- annoyed
- **possible**

8. The first of its kind in Bangladesh, the kidney transplant operation was -----complicated.

- None of these
- **extremely**
- immediately
- nearly
- slightly

9. Now you know the ---I did not agree to submit the paper.

- None of these
- **reason why**
- cause
- why
- reason

10. The CEO has ----the matter with the departmental heads for more than an hour to make a unanimous decision.

- None of these
- dissuaded from
- dealt out
- delegated upon
- **deliberated upon**

11. You are a hypocrite. Your activities are at ----with your words.

- None of these

- variable
- variation
- variety
- variance

12. Choose the correct sentence from the options provided.

- None of these
- The actions speak much louder than words.
- Action speak louder than words.
- An action speak louder than words.
- **Actions speak louder than words.**

13. Choose the correct sentence from the options provided.

- None of these
- You have achieved more than what we expected.
- **You have achieved much more than what we expected.**
- You achieved much more than expected.
- You have achieved much more than expected.

14. Choose the correct sentence from the options provided.

- None of these
- It is neither true or valid
- It is nor here and definitely not there.
- It is not true and nor valid.
- **It is neither here nor there.**

15. Choose the correct sentence from the options provided.

- None of these
- Aside being clever, she is very perceptive
- Beside being clever, she is also intuitive.
- **Besides being clever, she is very intuitive.**
- Beside being clever, she is very perceptive.

16. Choose the correct sentence from the options provided.

- **My house is far from here.**
- What you say is fur from the truth.
- It is still further from here.
- It is further from here.
- None of these

Math

5. Annie can complete a term paper in 15 days while Bob can finish it in 20 days. What is the fraction of work left if both Annie & Bob work together for 4 days?

- 1/4
- 1/10
- 7/15
- **8/15**
- None of these

6. To make a high quality fertilizer, a seller mixes 26 kg of type A fertilizer at Tk 20 per kg with 30 kg of type B fertilizer at Tk 36 per kg and sells the mixture at Tk. 30 per kg. What is her profit percentage?

- No profit, no loss
- **5%**
- 8%
- 10%
- None of these

7. One 100 gram bowl of cream soup contains 300 calories. How many calories are there in a 30 gram portion of that soup?

- **90**
- 100
- 900
- 1000
- None of these

8. "X" is the minimum number of mangoes that must be added to an existing stock of 966 mangoes. So that the total stock can be equally distributed among 6, 7, 8 or 9 persons. What is the value of "X"?

- 36
- **42**
- 56
- 72
- None of these

9. In a cricket championship tournament, Team Dhaka has won 30 games out of 50 played. It has 45 more games to play. In order to maintain an average of 80% victory rate, team Dhaka has to win how many games?

- 24
- 32
- 36
- 42

➤ None of these

↳ If 6 undergraduate students can complete 9 identical math projects in 3 days, how long (in days) will it take 4 undergraduate students to complete 10 such projects?

➤ 5

➤ 4

➤ 6

➤ 3

➤ None of these

↳ A pineapple costs Tk 7 each. A watermelon costs Tk 5 each. Rahima spends exactly Tk 38 on these fruits. What was the number of pineapples purchased?

➤ 2

➤ 3

➤ 4

➤ Cannot be calculated

➤ None of these

↳ What is the value of 'x' if the average of 3, 4, 8 and 'x' is exactly 5?

➤ 5

➤ 6

➤ 8

➤ 10

➤ None of these

↳ How many miles can a motor cyclist travel from 8:25 a.m. to 9:55 a.m. at a speed of 80 miles per hour?

➤ 130 miles

➤ 150 miles

➤ 180 miles

➤ 120 miles

➤ None of these

↳ If the value of X and Y in the fraction XZ/Y are both tripled, how does the value of the fraction change?

➤ increases by one third

➤ triples

➤ doubles

➤ remains the same

➤ None of these

↳ How many liters of fuel are needed for a steamer to sail 700 kilometers if it uses 80 liters of fuel to sail 320 kilometers?

- 150
- 155
- 160
- 170
- **None of these**

22. 'Today' is to 'Tomorrow' as 'Sunday' is to ----

- Sunday
- **Monday**
- Tuesday
- Thursday
- None of these

Computer

3. Which one of the following is a read only memory storage device?

- **CD-ROM**
- Hard disk
- Floppy disk
- Pen drive
- None of these

4. All of the logic and mathematical calculations done by the computer happen in/on the ----

- Motherboard
- Power supply
- Hard disk
- **CPU**
- None of these

5. 1 KB= how many bytes?

- 1000
- **1024**
- 1000,000
- 65,636
- None of these

6. Which one of the following cables can transmit data at high speeds?

- Co-axial cables
- Twisted pair cables
- **Fibre optic cables**

- UTP cables
- None of these

Q. In computers, what is the smalles and basic unit of information storge?

- Bit
- Byte
- Megabyte
- Gigabyte
- None of these

Q. In Windows operating system, What is the shortcut key for printing a word document?

- Ctrl + P
- Shift + P
- Ctrl + Alt + P
- Alt + P
- None of these

Q. Which one of the following is not an open source operating system?

- Linux
- Unix
- Windows
- Sun Solaris
- None of these

Q. In MS Word, which one of the following shortcut commands is used to open a new window?

- Ctrl + N
- Shift + N
- Ctrl + W
- Alt + W
- None of these

GK

Q. Which one of the following is the largest lake in the world?

- None of these
- Baikal Sea
- Caspian Sea
- Lake Superior
- Victoria

Q. How many countries are members of the SAARC?

- None of these
- **8**
- 7
- 6
- 5

၁၉. During the Liberation War of 1971, into how many sectors was Bangladesh divided?

- None of these
- **11**
- 12
- 13
- 14

၂၀. How frequently does the Bangladesh Bank announce the Monetary Policy of Bangladesh?

- None of these
- Monthly
- Yearly
- **Half yearly**
- Quarterly

၂၁. After the USA, which one of the following countries is the largest economy in the world?

- None of these
- **China**
- Japan
- Russia
- England

၂၂. Which district of Bangladesh is the smallest in size?

- None of these
- Magura
- **Bandorban**
- Narail
- Chuadanga

၂၃. Which one of the following is the capital of India?

- None of these
- Bangalore
- Mumbai
- Kolkata
- **New Delhi**

၂၄. 'GNP' stands for which one of the following?

- None of these

➤ Gross Native Produce

➤ **Gross National Product**

➤ Great National Produce

১৯. A plant leaf appears green because it ----

➤ None of these

➤ adsorbs red and yellow light

➤ **reflects green light**

➤ absorbs green light

➤ reflects all but yellow and green light

২০. Galvanized Iron sheets have a coating of ----

➤ Chromium

➤ None of these

➤ Lead

➤ **Zinc**

➤ Tin

২১. In which layer of the atmosphere do most weather phenomena occur?

➤ None of these

➤ **Troposphere**

➤ Ionosphere

➤ Stratosphere

➤ Exosphere

২২. Which one of the following is not included in the formal sectors of financial system of Bangladesh?

➤ None of these

➤ **NGO**

➤ Commercial Bank

➤ Merchant Bank

➤ Insurance Company

২৩. The difference between lending and borrowing rate at banks id called ----

➤ None of these

➤ **Spread**

➤ All of these

➤ Gap

➤ Revenue

২৪. In October 2013, which of the following countries had announced that it would become the first member of the Euro zone, to exit an international bail-out programme?

➤ None of these

➤ Greece

➤ Ireland

➤ France

➤ Portuguese

১৪. The headquarter of CIRDAP is in ---

➤ None of these

➤ Chicago

➤ Dhaka

➤ Chennai

➤ Colombo

১৫. Which one of the following sectors has the highest contribution to the GDP of Bangladesh?

➤ None of these

➤ Banks

➤ Foreign Remittance

➤ RMG

➤ Agriculture



Job Information For All Students (BCS & Bank)

Entry
তারিখ

Learn
জ্ঞান

Goal
উদ্দেশ্য

Success
সাফল্য

We always with you...

- f. A customer bought 5 pencils and 6 erasers at Tk. 80. Next week, the price of each pencil increases by 20%, but the price of erasers remains unchanged. Now, the customer buys 2 pencils and 3 erasers at Tk. 39. Find the new price of each pencil.

অনুবাদ: একজন ক্রেতা ৮০ টাকা দিয়ে ৫টি পেসিল ও ৬টি ইরেজাৰ কিনলো। পৰেৱে সঞ্চাহে পেসিলৰ দাম ২০% বেড়ে গেল কিন্তু ইরেজাৰেৱ দাম অপৰিবৰ্তিত রাইলো। এৱলো পেসিলৰ প্ৰতিটি ৩৯ টাকায় ২টি পেসিল এবং ৩টি ইরেজাৰ পেলে প্ৰতিটি পেসিলৰ নতুন দাম কত তা বৈৱতে হবে?

Answer:

Let, the initial price of each pencil is Tk. x and The initial price of each eraser is Tk. y

According to the questions,

$$5x + 6y = 80 \quad \text{(i)}$$

After price increase of pencil, the new price 1 pencil is $(x + 20\% \text{ of } x)$ Tk.

$$x + \frac{20x}{100} = \frac{6x}{5} \text{ Tk.}$$

According to the question,

$$\left(2 \times \frac{6x}{5}\right) - (3 \times y) = 39$$

$$\Rightarrow \frac{12x}{5} + 3y = 39$$

$$\Rightarrow \frac{12x + 15y}{5} = 39$$

$$\Rightarrow 12x + 15y = 195 \quad \text{(ii)}$$

Now, multiplying equation (i) by 5 and equation (ii) by 2 and subtracting equation (ii) from equation (i), we get.

$$\begin{aligned} \text{New price of a pencil will be } & \frac{6x}{5} - \frac{6 \times 10}{5} \text{ Tk.} \\ & = 12 \text{ tk.} \end{aligned}$$

The new price of each pencil is 12 Tk.

AL-ARAFAH ISALMI BANK LTD

MTO – 2017

TIME: 90 MIN; MARKS: 100

PART ONE: Multiple Choice Questions (MCQ)

Section: English

- Q. (1 to 5): Find out which underlined parts (a, b, c and d) of the following sentences has an error.

01. The essential basic ingredient in the creation

a b
of a thunderstorm is a warm, moist, unstable
c d
atmosphere.

Answer: অপশন b) এৱলো a warm না হয়ে উধৃ warm হবে। **ans. C**

02. Cell division depends the replication of DNA

a
molecules and the separation of the products
b c
of this replication.
d

Answer: অপশন a) এৱলো depends না হয়ে depends on হবে। **ans. A**

03. Slang, which is not generally acceptable in

a b
formal usage, is notable for its liveliness,
c
humor and it exaggerates.
d

Answer: অপশন d) এৱলো exaggerates না হয়ে its liveliness, humor এৱলো সাথে মিল রেখে exaggeration হবে। **ans. D**

04. Bonds can provide a steady flow of income to

a b
help of living expenses, which makes them
c
especially suitable for retired people.
d

Answer: অপশন c) এৱলো of living expenses না হয়ে উধৃ meet living expenses হবে। **ans. C**

05. **Investment** money means to put it into some
 a b
 business project such as **operating** a mine,
 c
 building a housing complex, or **doing**
 d
 medical research.

Answer: অপশন a) এর Investment money না হয়ে
 to invest money হবে। ans. A

Q. (6 to 10): Each question below consists of a word printed in capital letters, followed by four words. Select the word that is most nearly OPPOSITE in meaning to the word in capital letters. $1 \times 5 = 5$

06. PRECARIOUS

- a) Dangerous b) Safe
- c) Cautious d) Easy

Answer: Precarious- বিপজ্জনক, Cautious-সতর্ক,
 Safe- সিরাপদ, Easy- সরল। ans. B

7. OBSTINATE

- a) Inflexible b) Prominent
- c) Pliable d) Fashionable

Answer: Inflexible- অনমনীয়, Prominent- বিখ্যাত,
 Obstinate- একঙ্গে, Pliable-ন্ম্ন/ নমনীয়। ans. C

08. PAUCITY

- a) Surplus b) Scarcity
- c) Presence d) Richness

Answer: Paucity - অভাব/ ক্ষণতা, Surplus- অতিরিক্ত/
 বাড়তি, Presence- উপস্থিতি, Scarcity- অভাব/ অপ্রচুল,
 Richness- প্রাচৰ্য/ বিশ্ব-বৈচিত্র। ans. D

09. EFFEMINACY

- a) Aggressiveness b) Attractiveness
- c) Manliness d) Boorishness

Answer: Effeminacy- মেয়েলি, Attractiveness-
 আকর্ষণীয়তা, Boorishness- ঊঘাতা, Aggressiveness-
 ঊঘাতা, Manliness- পুরুষালী। ans. C

10. LUSCIOUS

- a) Dry b) Sour
- c) Ugly d) Stale

Answer: Luscious - রসালো/ রসে ভরপূর, Sour -টক,
 Ugly - বিশ্বী, Stale - বাসী, Dry - শক্ত। ans. A

Q. (11-15): Select the pair that expresses a relationship similar to that expressed in the original pair given in uppercase.

11. SUGAR : SACCHARIN::

- a) candy: cake b) cane : sugar
- c) spice : pepper d) butter : margarine

Answer: Spice - মসলা, Pepper - মরিচ/ গোলমরিচ।
 Sugar-এর পরিবর্তে Saccharin ব্যবহার করা হয়; আর
 Butter এর পরিবর্তে Margarine ব্যবহার করা হয়।

ans. D

12. FLASK : BOTTLE ::

- a) metal : glass b) powder : liquid
- c) quart : pint d) brochure : tome

Answer: Brochure- ছোট বই, Tome- বড় বই, Quart- তরল পদার্থের পরিমাপের একক, Pint- তরল পদার্থের পরিমাপের একক।

Flask ও Bottle তরল পদার্থের আঁধার; আর Brochure ও Tome তথ্যের আঁধার।

ans. D

13. CALIBER . RIFLE ::

- a) quality : shoot b) compass : bore
- c) gauge : rails d) cavalry : infantry

Answer: Caliber বন্দুকের নলের ভিতরের বাসার্ধ,
 Bore- খনন করা, Cavalry- অশ্বারোহী বাহিনী, Infantry-
 পদাতিক বাহিনী।

Rifle এর নলের ভিতরের বাসার্ধকে Caliber বলে; আর
 Rails এর দুটি লাইনের মধ্যবর্তী দূরত্বকে Gauge বলে।

ans. C

14. SEDATIVE : DROWSINESS ::

- a) epidemic : contagiousness b) vaccine : virus
- c) laxative : drug d) anesthetic : numbness

Answer: Epidemic- মহামারী, Drowsiness-
 তন্ত্রজ্ঞানভাব, Numbness- অবশতা, Laxative- রেচক,
 Anesthetic- অনুভূতিনাশক, Vaccine- সংক্রান্ত রোগ
 প্রতিবেদক ঔষধ, Contagiousness- সংক্রমিত হয় এমন
 বৈশিষ্ট্য সম্পন্ন, Sedative- প্রশান্তিদায়ক।

Sedative ঔষধ Drowsiness হয়; আর Anesthetic
 ঔষধ Numbness হয়।

ans. D

15. CHOP : MINCE ::

- a) meat : cake b) axe : mallet
- c) cut : walk d) stir : beat

Answer: Chop - টুকরা টুকরা করে কাটা, Mince - কুচি
 কুচি করে কাটা, Stir- নাড়া/ আঘাত করা, Axe - কুড়াল,
 Mallet - হাতুরি, Beat - আঘাত করা।

Chop ও Mince সমার্থক শব্দ; আর Stir ও Axe সমার্থক
 শব্দ।

ans. D

Q. (16-20): Choose the appropriate words or phrase that best completes the sentence. $1 \times 5 = 5$

16. The professor ____ contemporary journalism for being too ____.

- a) berated, childish
- b) criticized, authentic
- c) trenchant, penetrating
- d) attacked, important

Answer: বাক্যটির অর্থ: বেশি ছেলেমিপূর্ণ হওয়ার কারণে সমসাময়িক সাংবাদিকতাকে প্রফেসর সাহেব তীব্র সমালোচনা করলেন।

The professor berated contemporary journalism for being too childish. *ans. A*

17. His remarks were ____ and ____ indicative of his keen and incisive mind.

- a) ingenuous, noteworthy
- b) impartial, apolitical
- c) requited, responsible
- d) apish, dramatic

Answer: His remarks were ingenuous and noteworthy, indicative of his keen and incisive mind.

বাক্যটির অর্থ: তার মন্তব্যগুলো অকপট এবং লক্ষণীয় ছিল, যা ছিল তার তাঁক এবং সূক্ষ্মভুক্তিসম্পন্ন মনের পরিচারক। *ans. A*

18. Customers are entitled to receive additional credit services ____ maintain their account in good standing.

- a) because of
- b) they can
- c) do they
- d) as long as they

Answer: বাক্যটির অর্থ: গ্রাহকদের অতিরিক্ত ঋণসেবা পাওয়ার অধিকার রয়েছে, যতক্ষণ পর্যন্ত তারা তাদের আয়কাউন্ট ভাল অবস্থার চালু রাখে।

Customers are entitled to receive additional credit services as long as they maintain their account in good standing. *ans. D*

19. The new machine failed to ____ the garbage; the kitchen was filled to bursting with smelly leftovers.

- a) expand
- b) compact
- c) produce
- d) procrastinate

Answer: বাক্যটির অর্থ: আবর্জনাসমূহ কঠিনভাবে ঘনীভূত করতে নতুন মেশিনারী ব্যর্থ হলো; দুর্জন্যকৃত পরিভ্যক্ত আবর্জনার দ্বারা যেন রান্নাঘর উপরে পড়ছিল।

The new machine failed to compact the garbage; the kitchen was filled to bursting with smelly leftovers. *ans. B*

20. ____ information is encoded effectively in the memory, it may not be easily recalled when necessary.

- a) The
- b) Unless
- c) That
- d) So that

Answer: বাক্যটির অর্থ: যদি না তথ্য কার্যরতভাবে সাংকেতিকভাবে স্থৃতিতে সংরক্ষিত থাকে, প্রয়োজনের সময় তা সহজে স্মরণ করা যাবে না।

Unless information is encoded effectively in the memory, it may not be easily recalled when necessary. *ans. B*

Section: Mathematics

21. What is the value of $\frac{\sqrt{28} \times \sqrt{24}}{\sqrt{12} \times \sqrt{8}}$?

- a) $2\sqrt{2}$
- b) $3\sqrt{2}$
- c) $\sqrt{2}$
- d) None of these

Answer:

$$\begin{aligned} \frac{\sqrt{28} \times \sqrt{24}}{\sqrt{12} \times \sqrt{8}} &= \frac{\sqrt{7 \times 4} \times \sqrt{3 \times 8}}{\sqrt{3 \times 4} \times \sqrt{8}} \\ &= \frac{\sqrt{7} \times \sqrt{4} \times \sqrt{3} \times \sqrt{8}}{\sqrt{3} \times \sqrt{4} \times \sqrt{8}} = \sqrt{7} \end{aligned} \quad \text{i} \text{ans. D}$$

22. A boy was asked to multiply a number by $\frac{7}{8}$,

instead he divided the number by $\frac{7}{8}$ and got

the result $\frac{15}{14}$ more than what he should have

got if he had multiplied the number by $\frac{7}{8}$

The number is-

- a) 8
- b) 6
- c) 4
- d) None of these

Answer:

$$= \frac{x}{7} \times \frac{7x}{8} = \frac{15}{14}$$

$$\Rightarrow \frac{8x}{7} \times \frac{7x}{8} = \frac{15}{14}$$

$$\Rightarrow \frac{64x - 49x}{56} = \frac{15}{14}$$

$$\Rightarrow 15x = 4 \times 15$$

$$\Rightarrow 15x = 60$$

$$x = 4$$

$$\text{i} \text{ans. C}$$

23. The average age of a group of 10 students is 15 years. When 5 more students joined the group, the average age rose by 1 year. What is the average age of the newly joined students?

- a) 16 b) 17
c) 18 d) 19

অনুবাদ: একটি গ্রুপে ১০জন ছাত্রের গড় বয়স ১৫ বছর। যখন সেই গ্রুপে আরও ৫ জন ছাত্র যুক্ত হলো তখন তাদের গড় বয়স ১ বছর বৃদ্ধি পেল। নতুন যুক্ত হওয়া ছাত্রদের গড় বয়স কত?

Answer:

$$\begin{aligned} \text{10 students total age} &= (10 \times 15) = 150 \text{ year} \\ \text{The average age rose by 1 year or } (15 + 1) &= 16 \text{ year,} \\ (5 + 10) = 15 \text{ students total age} &= (15 \times 16) \\ &= 240 \text{ year} \\ \text{Now, 5 new students total age} &= (240 - 150) \\ &= 90 \text{ year} \\ \text{The average age of the newly joined students} &\text{are } \frac{90}{5} = 18 \text{ year} \quad \text{ans. C} \end{aligned}$$

24. If $\frac{x}{y} + \frac{y}{x} = 4$, then what is the value of $\frac{x^2}{y^2} + \frac{y^2}{x^2}$?

- a) 11 b) 12
c) 13 d) 14

Answer:

$$\begin{aligned} \text{Given, } \frac{x}{y} + \frac{y}{x} &= 4 \\ \frac{x^2}{y^2} + \frac{y^2}{x^2} &= \left(\frac{x}{y}\right)^2 + \left(\frac{y}{x}\right)^2 = \left(\frac{x}{y} + \frac{y}{x}\right)^2 - 2 \\ \frac{x}{y} + \frac{y}{x} &= 4^2 - 2 = (16 - 2) = 14 \quad \text{ans. D} \end{aligned}$$

25. 3 men or 5 women or 8 boys can finish a work in 38 days. How many days will be required to complete the same work by 6 men, 10 women and 6 boys together?

- a) 5 b) 6
c) 7 d) None of these

অনুবাদ: ৩ জন পুরুষ বা ৫ জন মহিলা বা ৮ জন বালক একটি কাজ ৩৮ দিনে করে। এই কাজ ৬ জন লোক, ১০ জন মহিলা এবং ৬ জন বালক কত দিনে সম্পন্ন করবে?

Answer: Given, 3 men = 5 women = 8 boys
6 men = 10 women = 16 boys
(6men + 10 women + 16 boys) = 38 boys

8 boys complete the work by = 38 days

$$\therefore 38 \text{ boys complete the work by} = \frac{38 \times 8}{38} \text{ days} \\ = 8 \text{ days ans. D}$$

26. If the perimeter of a rectangular garden plot is 34 feet and its area is 60 square feet, what is the length of each of the longer sides?

- a) 5 feet b) 6 feet
c) 10 feet d) 12 feet

অনুবাদ: একটি আয়তাকার বাগানের পরিসীমা ৩৪ ফিট এবং ক্ষেত্রফল ৬০ বর্গফিট, তাহলে এই বাগানের দৈর্ঘ্য কত?

Answer:

পরিসীমা ৩৪ হলে আয়তাকার বাগানের (দৈর্ঘ্য+প্রস্থ) হবে= 17
আয়তাকার বাগানের ক্ষেত্রফল হলো = ৬০ বর্গফুট

৬০ এর গুণনীয়ক জোড়ার যোগফল ১৭ হবে, সেগুলোই হলো আয়তাকার বাগানের দৈর্ঘ্য ও প্রস্থ।

$$60 = 4 \times 15; 60 = 6 \times 10; 60 = 5 \times 12$$

$$\text{এখানে } 12 + 5 = 17 \text{ হয়।}$$

তাহলে এই বাগানের দৈর্ঘ্য হবে 12 feet ans. D

27. A man had property worth Tk. 26,540. He gave Tk. 9,200 to his wife and divided the remaining amount among his three sons in the ratio of 1 : 2 : 3. How much more money did the third son get over the first son?

- a) 2890 b) 5780
c) 5980 d) None of these

Answer: তিনপুরু মোট পায়=(26540-9200)=17340 টাকা

$$1\text{ম পুত্র পায় } 17340 \times \frac{1}{1+2+3} = 2890 \text{ টাকা}$$

$$3\text{য পুত্র পায়} = (2890 \times 3) = 8670 \text{ টাকা}$$

$$\text{তৃতীয় পুত্র, } 1\text{ম পুত্রের চেয়ে } 8670 - 2890 = 5780 \text{ টাকা} \quad \text{ans. B}$$

28. A candidate scoring 25% marks in an examination fails by 30 marks while another candidate who score 50% marks gets 20 marks more than the minimum pass marks. What is the minimum pass mark?

- a) 60 b) 80
c) 200 d) None of these

অনুবাদ: একজন প্রার্থী ৩০ নম্বরের মধ্যে ২৫% পেয়েও ফেল করল এবং অন্য প্রার্থী ২০ নম্বরের মধ্যে ৫০% পেয়েও সর্বনিম্ন পাস নম্বর পেল। তবে সর্বনিম্ন পাস নম্বর কত?

Answer: Let, maximum mark = x

According to the question,

$$(x \times 25\%) + 30 = (x \times 50\%) - 20$$

$$\Rightarrow \frac{x}{4} + 30 = \frac{x}{2} - 20 \Rightarrow \frac{x}{4} - \frac{x}{2} = -50$$

$$\Rightarrow \frac{x-2x}{4} = -50 \Rightarrow -x = -200 \Rightarrow x = 200$$

minimum pass mark = 25% of 200 + 30

$$= 50 + 30 = 80 \quad \text{ans. C}$$

29. A man sold his watch at a loss of 5%. Had he sold it for Tk. 56.25 more he would have gained 10%. What was the cost of the watch?

a) 260

b) 280

c) 375

d) None of these

অনুবাদ: এক বাতি ৫% শতিতে তার ঘড়ি বিক্রয় করল। যদি যে ৫৬.২৫ টাকায় বিক্রয় করত তবে তার ১০% লাভ হতো। ঘড়িটির অরম্ভিক কত?

Answer: মনেকরি, cost price = 100 টাকা

$$5\% \text{ loss- } \text{ selling price} = 100 - (100 \times 5\%) = 95 \text{ টাকা}$$

10% gain- selling price টাকা

$$= 100 + (100 \times 10\%) = 110 \text{ টাকা}$$

$$\therefore \text{Selling price বেশি} = (110 - 95) = 15 \text{ টাকা}$$

\therefore Selling price 56.25 টাকা বেশি হলে cost price

$$= \frac{56.25 \times 100}{15} = 375 \text{ টাকা} \quad \text{ans. C}$$

30. A dishonest trader mixes 2 kg of vegetable ghee costing Tk. 45 a kg with 3 kg of standard ghee costing Tk. 70 per kg. He sells the mixed ghee at Tk. 65 per kg. What is his percentage of profit?

a) 25%

b) 16.67%

c) 8.33%

d) 6%

অনুবাদ: একজন অসাধু ব্যবসায়ী প্রতি কেজি ৪৫ টাকা দরে ২ কেজি ভেজিটেবল পি এবং ৭০ টাকা দরে ৩ কেজি আদর্শ পি গুড় করে মেশালো। সে যিন্তি পি প্রতি কেজি ৬৫ টাকা দরে বিক্রয় করল। সে শতকরা কত লাভ করল?

Answer:

2 kg vegetable ghee এর দাম = $(2 \times 45) = 90$ টাকা

3 kg standard ghee এর দাম = $(3 \times 70) = 210$ টাকা

$$(2+3) = 5 \text{ kg mixed ghee} \text{এর দাম} = (210+90) = 300 \text{ টাকা}$$

$$\text{প্রতি kg 'র দাম} = \frac{300}{5} = 60 \text{ টাকা} \quad \boxed{\begin{array}{l} \text{দেয়া আছে,} \\ \text{বিক্রয়মূল্য}=65 \text{ টাকা} \end{array}}$$

$$\% \text{ of profit} = \frac{65 - 60}{60} \times 100 = 8.33\% \quad \text{ans. C}$$

Section: Analytical Ability

Q. (31-34): Read the information and answer the questions. $2 \times 4 = 8$

The mixing vat in a factory receives liquid ingredients through six separate valves—labeled R, S, T, U, Y and Z - each of which has exactly two settings: Open and closed. The mixing vat operator must ensure that each valve is set open or closed according to the following conditions:

- i) If T is open, both S and Z must be closed;
- ii) R & Z cannot both be closed at the same time;
- iii) If Y is closed, Z must also be closed;
- iv) S and U cannot both be pen at the same time.

হ্যাটি valve: R, S, T, U, Y, Z প্রতিটি valve খোলা ও বক্ষ রাখা যায়। একজন অপারেটর নিম্নের শর্তানুসারে এদেরকে খোলা ও বক্ষ রাখে।

- i) T খোলা থাকলে S ও Z অবশ্যই বক্ষ থাকবে।
- ii) R ও Z একই সাথে বক্ষ থাকে না।
- iii) Y বক্ষ হলে Z অবশ্যই বক্ষ থাকে।
- iv) X ও U একই সাথে খোলা থাকে না।

31. If Z is open, which of the following must be true?

- a) S is open
- b) T is open
- c) U is open
- d) Y is open

Answer: যেহেতু Z খোলা তাই Y অবশ্যই খোলা থাকবে। ans. D

32. If R is closed and U is open, which of the following must be true?

- a) S is open
- b) T is open
- c) T is closed
- d) Y is closed

Answer: R বক্ষ থাকলে Z অবশ্যই খোলা থাকবে। যেহেতু Z খোলা থাকা মানে Y খোলা এবং T অবশ্যই বক্ষ থাকবে। ans. C

33. If the maximum number of valves that can be closed at the same time are closed, which of the following must be true?

- a) R is open
- b) S is open
- c) T is open
- d) Z is open

Answer: ii) নং শর্ত অনুসারে R অবশ্যই খোলা থাকবে এবং i) নং শর্ত অনুসারে S ও Z বক্ষ থাকবে। ans. A

34. Which of the following, if given to the mixing vat operator as an instruction, would not determine the setting of any other valve?

- a) S must be open b) T must be open
c) U must be open d) S must be closed

Answer: a) S must be open হলে iv) নূ শর্ত অনুসারে U বক্স থাকবে। অর্থাৎ অপশন a) এর instruction দিয়ে অন্য valve এর কী হবে তা নির্ণয় করা যাবে না। তাই এটি বাদ।

- b) T must be open হলে S ও Z বক্স থাকবে। এটি বাদ।
c) U must be open হলে S বক্স। এটিও বাদ।
d) S must be closed হলে অন্য valve কোন কী হবে তা বলা যায় না বলে এটিই সঠিক।

ans. D

Q. (35-37): Read the information answer the questions.

$$1.5 \times 3 = 4.5$$

35. In a code CLEAR is written as NXIJH, how can REAL be written in the same code?

- a) HUN b) HJIX
c) HIJX d) HNJX

Answer:

প্রথমে,

একইভাবে,

C	L	E	A	R	R	E	A	L
N	X	I	J	H	H	I	J	X

অর্থাৎ REAL = HIJX

ans. C

36. Which of the following numbers replaces the question mark in the series? 5, 7, 11, ?, 35, 67

- a) 19 b) 22
c) 28 d) 30

Answer: ১ম সংখ্যা = 5

$$২য় সংখ্যা = 5 + 2 = 7$$

$$৩য় সংখ্যা = 7 + 2^2 = 11$$

$$৪র্থ সংখ্যা = 11 + 2^3 = 19$$

ans. A

37. If Z = 52 and ACT = 48, then BAT will be equal to-

- a) 39 b) 41
c) 44 d) 46

Answer: দেয়া আছে, Z = 52, Alphabetically
সিরিজে Z-এর মান যে অবস্থানে (26) এখানে Z-এর মান ছিঙুণ
অর্থাৎ $(26 \times 2) = 52$ । ঠিক একইভাবে অন্যগুলোর মান তার
অবস্থানের ছিঙুণ হবে অর্থাৎ ACT = $(2+6+40) = 48$

$$\text{BAT} = (4+2+40) = 46$$

ans. D

Section: General Knowledge

38. Which organization does regulate the Insurance Industry of Bangladesh?

- a) IDRA b) MRA
c) BB d) IRA

ans. A

39. Who is the recipient of Nobel Peace Prize 2016?

- a) Bob Dylan b) Juan Manuel Santos
c) Oliver Hart d) Bernard L. Fering

ans. B

40. BFIU is related to which of the following?

- a) Prevention of Cancer
b) Prevention of Water Pollution
c) Prevention of Money Laundering
d) Prevention of International Dumping

C

41. What was the total score of Dhaka Dynamites against Rajshahi Kings in their final match of BPL held December 9, 2016?

- a) 103 b) 135
c) 159 d) 167

ans. C

42. Which of the following is the capital of a European country?

- a) Asmara b) Sofia
c) Beirut d) Quito

ans. B

43. Which of the following is a universal blood donor?

- a) A b) B
c) AB d) O

ans. D

44. Payra Sea-port is located in which of the following district?

- a) Barisal b) Khulna
c) Patuakhali d) Borguna

ans. C

Part Two

01. Translate into English:

05

প্রশান্ত মহাসাগরীয় অঞ্চলের দেশগুলোতে গত এক দশকে
অর্থনৈতিক ব্যাপক উন্নতি হয়েছে। তবে এ উন্নতি সামাজিক
উন্নয়নে ক্ষমতাপূর্ণ হয়নি। অনেকেই অর্থনৈতিক উন্নয়নের ভাগ

পায়নি। এখনো এ অঞ্চলে প্রতি ১০ জনের ১ জন শ্রমিক দাবিদ্বাসীমার নিচে বাস করেন। শ্রমিকদের শোষণ ও আইনি সুরক্ষা না থাকা, লাখের মানুষকে বাধ্যতামূলক শ্রমে আটকে রাখা, শিশুশ্রম ও উদ্বাঞ্ছ-সংকট এখনও এ অঞ্চলের উৎসের বিষয়। তাই এখন সবচেয়ে হয়েছে বিগত দিনের কার্যক্রম মূল্যায়ন ও ভবিষ্যৎ কর্মপরিকল্পনা ঠিক করার। কর্মসংস্থানের ফেজে ভবিষ্যৎ কর্মকৌশল ঠিক করতে দৃঢ় বিষয় বিবেচনায় রাখা প্রয়োজন। এগুলো হলো কর্মসংস্থানের ওপর তথ্যপ্রযুক্তির প্রভাব ও সমাজে আয় বৈধয়। আন্তর্জাতিক শ্রম সংস্থার ১৬তম এশিয়া ও প্রশান্ত মহাসাগরীয় আঞ্চলিক সম্মেলনে বক্তৃতা এসব বিষয়ে গুরুত্ব দেন।

Answer: The countries of the pan-pacific regions have conquered a tremendous economic development during the last decade. But this development has not turned into social development. Many were deprived of the advantage of this economic progress. One-tenth of the day labourers of this area still live below the poverty line. Exploitation of labourers and lack of legal support, enforcing millions of people to work under compulsion, child labour and refugee crisis are still matters of great concern of this region. Therefore, it is time to evaluate the programmes taken in the previous years and to set up future action plan. Two issues are to be considered to determine future action strategies in the field of employment and these are effect of information technology on employment and inequality in income in the society. In the 16th Pan-Pacific regional conference of International Labour Organization, different speakers emphasized on these issues.

02. Write an essay on 'Significance of Observing Intellectual Martyrs Day in our National Life'.

Answer:

Martyred Intellectuals Day is observed on 14 December in Bangladesh to commemorate those intellectuals who were killed by Pakistani forces and their collaborators during the 1971

Liberation War, particularly on 25 March and 14 December 1971. Just two days after the 14 December carnage, on 16 December, Bangladesh became independent through the surrender of Pakistani occupation forces. Pakistani forces and local collaborators like Al-Badr, Al-Shams and Rajakar forces committed the killings aiming at annihilating the country's intellectual class.

There are but a few days in our history more painful and engaging of the collective psyche of a nation than 14 December. On this day, we remember and we grieve. We remember with a heavy heart the loss of the brightest stars of our intellectual firmament and we grieve for the fact that we will hardly be able to produce the likes of those that we lost. We feel their absence deeply and will continue to feel so for as long as we survive as a nation.

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We should observe the day as Martyred Intellectuals day in Bangladesh memory those bright souls who fall victim to a brutal military regime.

The martyred intellectuals have left a legacy that they would expect us to carry forward. Those who are living can be vitally alive, effective and worthy of being called intellectuals if they join the people in the way their noble predecessors have done.

03. Average weight of Alam, Babul and Kamal is 84kg. When Dulal, as a new member, joins the group, average weight of the group becomes 80kg. If another man Einul the group becomes 79kg. What is the weight of Alam?

Answer: Total Weight of Alam, Babul and Kamal is $(84 \times 3) = 252$

Total weight of Alam, Babul, Kamal and Dulal is $(80 \times 4) = 320$

\therefore Dulal's weight is $(320 - 252) = 68$

Einul weight is $(68 + 3) = 71$

Total weight (Babul + Kamal + Dulal + Einul) $= (79 \times 4) = 316$

\Rightarrow Babul + Kamal + 68 + 71 = 316

\Rightarrow Babul + Kamal = $316 - 139 = 177$

Weight of Alam = $(252 - 177) = 75$ kg

04. The perimeter of a square field is equal to the perimeter of a rectangular field. Length of the rectangular is 3 times of its width and the area is 768 square meter. How many square sized tiles of 80 centimeter width will be required to cover the square field?

Answer: Let the width of the rectangular field be $= x$ meter

Length of the rectangular field is $= 3x$ meter

According to the question, $3x \times x = 768$

$$\Rightarrow x^2 = \frac{768}{3} = 256 \quad x = 16$$

So, length $= 3 \times 16 = 48$ meter

and width $= 16$ meter

Perimeter $= 2(48 + 16) = 128$ meter

[\because Perimeter of square = Perimeter of rectangular field]

Perimeter of square = 128 meter

$$\text{Side of square} = \frac{128}{4} = 32 \text{ meter}$$

$= 3200 \text{ cm}$ [$1 \text{ meter} = 100 \text{ cm}$].

Area of square field $= 3200 \times 3200 = 10240000 \text{ cm}^2$

$$\therefore \text{Number of required tiles} = \frac{10240000}{6400} = 1600$$

05. A, B and C started a business jointly with a total amount of Tk. 28,000. A paid Tk. 4,500 more than B and B paid Tk. 7,000 less than C. If the company made a profit of Tk. 5,600.

Answer: Let B paid Tk. x ; A paid Tk. $(x + 4500)$ and C paid Tk. $(x + 7000)$

According to the question,

$$x + x + 4500 + x + 7000 = 28000$$

$$\Rightarrow 3x + 11500 = 28000$$

$$\Rightarrow 3x = 16500$$

$$x = 5500$$

B paid = Tk. 5500

A paid = Tk. $(5500 + 4500) =$ Tk. 10000

C paid = Tk. $(5500 + 7000) =$ Tk. 12500

Their profit sharing ration as their investing ratio $= 10000 : 5500 : 12500 = 20 : 11 : 25$

$$\text{Profit of C} = 5600 \times \frac{25}{20 + 11 + 25} = \text{Tk. } 2500$$

06. Solve the equation $\frac{4}{2x+1} + \frac{9}{3x+2} = \frac{25}{5x+4}$

Answer:

$$\frac{4}{2x+1} + \frac{9}{3x+2} = \frac{25}{5x+4}$$

$$\Rightarrow \frac{4}{2x+1} + \frac{9}{3x+2} = \frac{15}{5x+4} + \frac{10}{5x+4}$$

$$\Rightarrow \frac{4}{2x+1} - \frac{10}{5x+4} = \frac{15}{5x+4} - \frac{9}{3x+2}$$

$$\Rightarrow \frac{20x + 16 - 20x - 10}{(2x+1)(5x+4)} = \frac{45x + 30 - 45x - 36}{(5x+4)(3x+2)}$$

$$\Rightarrow \frac{6}{(2x+1)(5x+4)} = \frac{-6}{(5x+4)(3x+2)}$$

$$\Rightarrow \frac{1}{(2x+1)} = \frac{-1}{(3x+2)}$$

$$\Rightarrow 3x + 2 = -2x - 1$$

$$\Rightarrow 5x = -3$$

$$x = -\frac{3}{5}$$

Al-Arafah Islami Bank Ltd - Officer - 2013

1. which of the following best summarize this passage?

- when language is barrier, people will find other forms of communication .
- Everybody uses only one form of communication
- Nonlinguistic languages are invaluable to foreigners.
- Although other forms of communication exist, verbalization is the fastest.

2. which of the following statements is not true?

- There are many forms of communication in existence today.
- Verbalization is the most common form of communication.
- **The deaf and mute use an oral form of communication.**
- Ideas and thoughts can be transmitted by body language.

3. which form other than oral speech would be most commonly used among blind people?

- Picture signs
- Body Language
- **Braille**
- Signal flags

4. How many different forms of communication are mentioned here?

- 5
- 7
- **9**
- 11

5. Belgian chocolate is "considered" by "many" to be "more" finer than any "other" in the world. Find Error

Error

- considered
- many
- **more**
- other

6. Fiber "is important" element "in" nutrition and it aids in "protecting" the digestive tract "as" well.

Find Error

- **is important**
- in
- protecting
- as

7. "when" a human being walks, he "or" she exerts a "number" of force "on" the ground. Find Error

- when
- or

➤ **number**

➤ **on**

8. One who is indifferent to pain and pleasure?

➤ **stoic**

➤ epicure

➤ humanitarian

➤ philanthropist

9. The history of a man written by others.

➤ **biography**

➤ autobiography

➤ history

➤ manuscript

10. A cure for all diseases.

➤ **panacea**

➤ cure

➤ antibiotic

➤ remedy

11. SURPRISE : EXCLAMATION

➤ insolence : bow

➤ dismay : groan

➤ happiness : grimace

➤ **deference** : nod

12. EXPEDITIOUS : SPEED

➤ **astute** : wisdom

➤ decorous : impropriety

➤ thoughtful : inanity

➤ haggard : sturdiness

Math

5. A man wishes to cover his floor with tiles, each one measuring $\frac{3}{4}$ inch by 2 inches. If his room is rectangular, measuring 12 feet by 18 feet, how many such tiles will he need?

➤ 144

➤ 1152

➤ 1728

➤ **20736**

৪. Johan walks 10 miles at an average rate of 2 miles per hour and returns on a bicycle at an average rate of 10 miles per hour. How long does the entire trip take him?

- 3 hours
- 4 hours
- 5 hours
- **6 hours**

৫. In theis diagram AB=AC angle A = 40 degree and BD is perpendicular to AC at D. how many degrees are there in angle DBC?

- **20 degree**
- 40 degree
- 50 degree
- 70 degree

৬. If t is any integer, which of the following represents an odd number?

- 2t
- **2t + 13**
- 3t
- 2t +12

৭. when the price of an article is reduced by 15% the sales increases by 35% . The percentage change in the total amount of receipts is-

- 14 of 3/4 decrease
- **14 lof 3/4 increse**
- 13 of 3/4 decrease
- None of them

৮. If A's income is 25% less than that of B, then how much percent is B's income more than that of A?

- **33 1/3%**
- 66 2/3%
- 11 2/3%
- 25%

৯. If simple interest on a certain sum of money is Tk. 256 and the rate of interest per annum equals the number of years,then the rate of interest is--

- 13%
- 14%
- **16%**
- 18%

Al-Arafah Islami Bank Ltd - MTO - 2011

Q(1-5) Find synonym:

1. Prolific

- plenty
- Conceptual
- **Fertile**
- Predominant

2. Elicit

- Induce
- **Extract**
- Divulge
- Instil

3. Mystique

- Face
- Reputation
- **Admirable quality**
- Popularity

4. Nemesis

- Victory
- Adventure
- Reward
- **Punishment**

5. Rein

- Overcome
- fling
- **control**
- Power

6. A process involving too much official formality--

- Nepotism
- diplomacy
- **Red-tapism**
- Bureaucracy

7. An office of post with no work but high pay-

- Honorary
- **Sinecure**
- Gratis

➤ Ex-officio

8. A common place remark-

➤ Dialogue

➤ **Platitude**

➤ Epigram

➤ Statement

9. A person who is always dissatisfied-

➤ Heretic

➤ Felon

➤ **Malcontent**

➤ Surrogate

10. One who has suddenly gained new wealth, power or prestige-

➤ Aristocrat

➤ Affluent

➤ Maverick

➤ **Parvenu**

11. How much a man earns is as important as --

➤ when does he do so

➤ how does he do it

➤ where does he earn

➤ **how well he spends it**

12. The more we looked at the piece of modern art, ---

➤ it looked better

➤ **the more we like it**

➤ we liked it less

➤ the less we liked it

13. To succeed in a difficult task---

➤ one needs to be persistence

➤ persistent is needed

➤ you need a person of persistent

➤ **one needs to be persistent**

14. This book is quite similar -----

➤ than a story told by our teacher

➤ **to the one I read last week**

➤ of that film we saw at school

➤ with the treasure Island

15. A "healthy" person snores "most' because the members "in" the nose "become" dry. **Find Error**

- healthy
- **most**
- in
- become

16. "most" babies will grow "up" to be as "cleverer" as their "parents" **Find Error**

- most
- up
- **cleverer**
- parents

17. The "smallest" things in "the" universe are. paradoxically, "be explored" "by" the largest machines.

Find Error

- smallest
- the
- **be explored**
- by

18. The "firing" of bricks and tiles "for use" in the "build" industry requires large "amounts" of fuel. **Find**

Error

- firing
- for use
- **build**
- amounts

19. A new battery "for" domestic appliances "in the house" is "as" thin and "flexible" as paper. **Find**

Error

- for
- **in the house**
- as
- flexible

Directions (20-24): Read the following passage and answer the questions that follow:

Nature is like business. Business sense dictates that we guard our capital and live from the interest. Nature's capital is the enormous diversity of living things. Without it, we cannot feed ourselves, cure ourselves of illness or provide industry with the raw materials of wealth creation. Professor Edward Wilson, of Harvard University says, "The folly our descendants are least likely to forgive us is the ongoing loss of genetic and species diversity. This will take millions of years to correct."

Only 150 plant species have ever been widely cultivated. Yet over 75,000 edible plants are known in the wild. In a hungry world, with a population growing by 90 million each year, so much wasted potential is tragic. Medicines from the wild are worth around 40 billion dollars a year. Over 5000 species are known to yield chemicals with cancer fighting potential. Scientists currently estimate that the total number of species in the world is between 10-30 million with only around 1.4 million identified.

The web of life is torn when mankind exploits natural resources in short-sighted ways. The trade in tropical hardwoods can destroy whole forests to extract just a few commercially attractive specimens. Bad agricultural practice triggers 24 billion tonnes of top soil erosion a year losing the equivalent of 9 million tonnes of grain output. Cutting this kind of unsuitable exploitation and instituting "sustainable utilisation" will help turn the environmental crisis around.

20. why does the author compare 'nature' to business?

- Because of the capital depletion in nature and business
- **Because of the similarity with which one should use both**
- Because of the same interest level yield
- Because of the diversity of the various capital inputs

21. "The folly our descendants are least likely to forgive us." what is the business equivalent of the folly the author is referring to ?

- Reducing the profit margin
- Not pumping some money out of profits into the business
- **Eroding the capital lease of the business**
- Putting interest on capital back into the business

22. which of the following statements is false in context of the given passage?

- The diversity of plant life is essential for human existence
- **scientists Know the usefulness of most plant species**
- Chemicals for cancer treatment are available from plants
- There are around ten times the plant species undiscovered as compared to the discovered ones

23. which of the following correctly reflects the opinion on the author to take care of hunger in the world?

- Increase the number of edible plants being cultivated.
- Increase cultivation of the 150 species presently under cultivation
- Increase the cultivation of medical plants.
- **Increase the potential of the uncultivated edible plants.**

24. which of the following is mentioned as the immediate cause for the destruction of plant species?

- Soil erosion
- **Destruction of habitat**
- Cultivation
- Agricultural practices

Math

5. The average of a set of 12 numbers, which includes 35, is N. If 35 is removed from the set and 38 is added to the set, then what is the average of the new set of numbers in terms of N ?

- $N + 1/3$

➤ 12 N +3

➤ N +1/4

➤ N +3

7. If $n + n = k + k$ and $n + k = 5$, then $n=?$

➤ 2

➤ 3

➤ 5

➤ 6

8. A train 120 m long is traveling at a speed of 60 km / h. The time in which it will pass by, walking at 6 km / h in the same direction is --

➤ 8 sec

➤ 6 sec

➤ 3 sec

➤ 9 sec

9. A rectangular carpet has an area of 120 sq. meters and a perimeter of 46 meters. The length of its diagonal is--

➤ 15 m

➤ 17 m

➤ 16m

➤ 20 m

10. The area of smallest square that can circumscribe a circle of area 616 cm^2 is -----

➤ 1936 cm^2

➤ 784 cm^2

➤ 196 cm^2

➤ 484 cm^2

11. A man borrowed Tk . 900 at 10% per annum simple interest and immediately lent the whole sum at 10% per annum compound interest. what does the gain at the end of 2 years?

➤ Tk. 8

➤ Tk. 9

➤ Tk. 6

➤ None

12. what is the maximum percentage discount that a merchant can offer on her Marked price so that she ends up selling at no profit or loss, if she had initially marked her goods up by 50% ?

➤ 50%

➤ 20%

➤ 33.33%

➤ 16.67%

b. A man can hit a target once in 4 shots. If he fires 4 shots in succession , what is the probability that he will hit his target?

- 1/256
- 81/256
- 175/256
- 144/256

d. In a class 40% of the students enrolled for Math and 70% enrolled for Economics . If 15% of the students enrolled for both Math and Economics, what % of the students of the class did not enroll for either of the two subjects?

- 5%
- 15%
- 25%
- None of these

g. How many diagonals does a 63 - sided convex polygon have?

- 3780
- 1890
- 1850
- 3969

11. The expression $\frac{1+\sqrt{2}}{1-\sqrt{2}}$ is equivalent to which of the following?

- $1 + \frac{2}{3\sqrt{2}}$
- $-1 - \frac{2}{3\sqrt{2}}$
- $3 + 2\sqrt{2}$
- $-3 - 2\sqrt{2}$

Islam

2. which of the following surah is called the heart of the Glorious Qur'an?

- Surah Fatiha
- Surah Ikhlas
- Surah Al -Baqarah
- Surah Yasin

2. How many 'mashrafs are there for receiving Zakat?

- Seven
- Eight
- Nine
- Ten

Q. "So establish weight with justice and fall not short in the balance. "In which surah of The Holy Qur'an the above verse has been stated?

- Al-Baqarah
- Ya-sin
- **Ar-Rahman**
- Al-Mulk

8. what is the opposite meaning of "ADI"?

- Ihsan
- **Julm**
- Ilm
- Amal

Q. Majlis -e-Surah in Islamic democracy is-

- **Advisory council**
- An unitary parliament
- Shariah council
- Zakat Board

Q. who among the following is a world famous chemist ?

- **Jabir Ibne Haiyan**
- Ibne Sina
- Omar Khaiam
- Al beruni

Q. Din -I - Ilahi was the name of a --

- Mosque
- Cottage
- Saint
- **Religion**

Q. The word "Sufi" is from which language?

- **Arabic**
- Urdu
- Persain
- Hindi

Q. where "Baitul Hikmah" is situated?

- Rome
- **Baghdad**
- Madina
- Iran

Q. who is the writer of the religious book " Behesti jeor"?

- Maulana Mohiuddin Khan
- Maulana Abdur Rahim
- Maulana Ashraf Ali Thanvi
- Mufti Mohammad shafi

Job BANK



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PROBATIONARY OFFICER – 2017

Part I: Multiple Choice Questions (MCQs);**Marks: 50; Time: 40 Minutes****Section A: English Language & Communication**

Q. (1 to 5): Find out which underlined parts (a, b, c and d) of the following sentences has an error. $1 \times 5 = 5$

01. The cougar is one of the New World's largest

a

cats, second not only to the Jaguar.

b

c d

Answer: second not only এর পরিবর্তে ক্ষু not second হবে। তাহলে বাক্যটি হবে:

The cougar is one of the new world's largest cats, not second to the Jaguar. ans. C

02. Many machines use the centrifugal force

a

generated by a sudden movement

b

c

to activating catches and ratchets.

d

Answer: activating এর পরিবর্তে activate হলে বাক্যটি সঠিক হতো। to এর পরে সাধারণত present form হয়। তাহলে বাক্যটি হবে: Many machines use the centrifugal force generated by a sudden movement to activate catches and ratchets. ans. D

03. If a stone thrown into a pond, the ripples will

a

b

spread out from the point where

c

d

the stone bits the water.

Answer: thrown না হয়ে is thrown হবে। তাহলে বাক্যটি হবে: If a stone is thrown into a pond, the ripples will spread out from the point where the stone bits the water. ans. B

04. Silver, one of the first metal used by humans, is

a

b

an excellent conductor of heat and electricity.

c

d

Answer: one of the এরপর noun এর সাথে s বা es যোগ হয় অর্থাৎ, Subject plural হয়। তাই, অপশন a) এর metal না হয়ে metals হবে। তাহলে বাক্যটি হবে: Silver, one of the first metals used by humans, is an excellent conductor of heat and electricity. ans. A

05. Although pocket gophers damage crops, their

a

tunneling aerates the soil, Which helps

b

conserve ground water preventing erosion.

c

d

Answer: helps এরপর conserving হলে বাক্যটি সঠিক হতো। কারণ, এটি parallel structure এর পথ। তাই parallel structure-এর নিয়ম অনুসারী tunneling, preventing এর সাথে parallel রেখে conserve-এর parallel conserving হবে। ans. C

Q. (6 to 10): Each question below consists of a word printed in capital letters, followed by four words. Select the lettered word that is most nearly opposite in meaning to the word in capital letter. $[5 \times 1 = 5]$

06. FREQUENCY

a) unity

b) rarity

c) persistency

d) moderation

Answer: Question এর জানা-অজানা শব্দগুলোর অর্থ: Frequency - পুনঃপুনঃ সংঘটিত/ কম্পাক্ষ/ ঘনঘন, Unity - এক্ষ/ মিল, Rarity - দুর্ঘাপ্যতা, Persistency - ছিরতা, Moderation - সংয়ম/ মিতাচার। ans. B

07. AMALGAMATE

a) study

b) circulate

c) reduce

d) separate

Answer: Question এর জানা-অজানা শব্দগুলোর অর্থ: Amalgamate - জোড়া লাগানো/ মিলিত করা, Study - অধ্যয়ন, Circulate - রটানো/সংবহন, Reduce - হ্রাস করা, Separate- আলাদা করা। ans. D

08. ARRHYTHMIC

- a) timely b) subordinate
 c) terminal d) exhibiting regularity

Answer: Question এর জানা-অজ্ঞান শব্দগুলোর অর্থ: Arrhythmic ধারাবাহিকতা/ নিয়মনিষ্ঠা/ পর্যাবৃত্তি, Timely- সময়েপার্যবী, Subordinate- অধীন/ অধিকৃত, Terminal - প্রাচীক, Exhibiting regularity- নিয়মিত প্রদর্শন।

ans. D

09. BLITHE

- a) grave b) dim
 c) sturdy d) laconic

Answer: Question এর জানা-অজ্ঞান শব্দগুলোর অর্থ: Blithe ফৃঢ়িবাজ/ হাসিখুশি/ প্রফুল্ল, Grave কবর/ গুরুতর/ গভীর, Dim - অস্পষ্ট/ অনুজ্ঞাল, Sturdy - বলিষ্ঠ, Laconic- স্মৃতভাবী।

ans. A

10. POLEMICAL

- a) imitative b) lavish
 c) conciliatory d) attractive

Answer: Question এর জানা-অজ্ঞান শব্দগুলোর অর্থ: Polemical বিতর্কমূলক/ বিবাদপ্রিয়, Imitative অনুকরণকারী, Lavish অপব্যয়কারী/ খরচে, Conciliatory ব্যক্তপূর্ণ/ বিরোধ দূর করে এমন, Attractive - আকর্ষণীয়/ মনোহর।

ans. C

Q. (11 to 15): Select the pair that expresses a relationship similar to that expressed in the original pair. [5 x 1 = 5]

11. FRAGILE : BREAK ::

[মূল বিদ্যালয় ইউনিট-5 (Social Sc. School)-২০১৬-১৭, GRE BIG Book-T-01-Q-10]

- a) Erratic : Control b) flammable : Burn
 c) Invisible : Strong d) Noxious : Escape

Answer: Fragile - ভঙ্গুর/ নখর/ নাড়ুক, Break- ভেঙে ফেলা/ আলাদা/ বিচ্ছিন্ন করা/ বিনষ্ট করা বা হওয়া/ অমান্য করা, Erratic - স্থুল/ কথাবার্তায় অসামান্য/ (বক্তুর ক্ষেত্রে) অনিয়মিত, Control - নিয়ন্ত্রণ/ কর্তৃত/ শাসন, Flammable - দাহ্য/ রাগী/ কোপনস্বত্ত্বার, Burn - দাহ/ অগ্নিদাহ/ পোড়া যা, Invisible - অদৃশ্য/ অলক্ষ্য/ অপ্রত্যক্ষ, Strong - শক্ত/ সুস্থূল/ প্রচঙ্গ/ শক্তিশালী/ মজবুত, Noxious - অনিষ্টকর/ ক্ষতিকর/ অপকারী, Escape - পলায়ন।

Fragile (ভঙ্গুর) জিনিস সহজে Break (ভেঙে); আর Flammable (দাহ্য) জিনিস সহজে Burn (পুড়ে)। Ans. B

12. MUTTER : INDISTINCT:: GRE Big Book- T-01- Q 11

- a) demand : obedient b) plead : obligatory
 c) flatter : commendable d) drone : monotonous

Answer: Mutter- বিড়বিড় করা, Indistinct- অস্পষ্ট, Demand- চাহিদা, Flatter- তোষামোদ, Commendable- প্রশংসনমূলক, Drone -একঘেয়ে কথা বলা, Monotonous -একঘেয়ে/ একটান/ বিরক্তিকর। Indistinct (অস্পষ্টভাবে) কথা বলা অর্থ Mutter (বিড়বিড় করা); Monotonous (বিরক্তিকর) কথা বলা মানে Drone (একঘেয়ে) কথা বলা।

Ans. D

13. FAULTFINDER : CRITICIZE::

GRE Big Book- T-01- Q 12

- a) luminary : obedient b) athlete : cheer
 c) arbitrator : mediate d) pharmacist : prescribe

Answer: Faultfinder- যারা সময় খোজেন, Criticize- সমালোচনা, Luminary- আলোকময়, Obedient- বাধ্যগত, Athlete- ক্রীড়াবিদ, Cheer- উৎসাহ, Arbitrator - মিটিয়ে দেয়া/ মধ্যস্থাকারী, আর Mediate- মধ্যস্থতা করা, Pharmacist- কম্পাউডার, Prescribe- নির্ধারণ করা।

Faultfinder'রা সব সময় Criticize (সমালোচনা) করেন; আর Arbitrator (মধ্যস্থাকারী)'রা সব সময় Mediate (মধ্যস্থতা করেন)।

Ans. C

14. PEST: IRKSOME::

GRE Big Book- T-01- Q 13

- a) salesclerk : courteous
 b) expert : proficient
 c) enigma : unexpected
 d) leader : nondescript

Answer: Pest- কীটপতঙ্গ/ বিরক্তিকর ব্যক্তি/ বিপদ বালাই, Irksome- বিরক্তিকর, Salesclerk- বিক্রয় কেরানি, Courteous- বিনীত, Expert- দক্ষব্যক্তি, Proficient- দক্ষ/ নিপুন/ কুশলী ব্যক্তি, Enigma- হেয়েলি/ রহস্য/ বিজ্ঞাপ্তি, Unexpected- অপ্রত্যাশিত, Leader- দলপতি/ নেতা/ অধিনায়ক, Nondescript- অবর্ণিত।

Pest (বিপদ বালাই) সবসময় Irksome (বিরক্তিকর) হয়; আর Proficient (কুশলী ব্যক্তি) সবসময় expert (দক্ষ) হয়।

Ans. B

15. LIONIZE : ADMIRE ::

[One Bank Ltd. (SCO)-2017, GRE Big Book - T-22 - Q-04]

- a) authorize : betray b) aggrandize : envy
 c) exonerate : suspect d) vituperate : despise

Answer: Lionize - সম্মান করা, Admire- প্রশংসন করা, Authorize - অনুমতি দেয়া, Betray - প্রতারণা করা, Exonerate - ক্ষমা করা, Suspect - সন্দেহ করা, Vituperate - নিন্দা করা, Despise - দূর্ণ করা।

Admire (প্রশংসন করা) হলে Lionize (সম্মান করা) হয়; Despise (দূর্ণ করা) হলে Vituperate (নিন্দা করা) হয়।

Ans. D

Q. (16 to 20): Choose the appropriate words or phrase that best completes the sentence. [5 x 1 = 5]

16. People _____ how light behaves thousands of years ago.

- a) must have begun observing
- b) must began to observe
- c) must to begin to observe
- d) none of these

ans. A

17. If everybody liked the same kind of tea _____ only one kind of tea.

- a) that
- b) it would
- c) there would be
- d) would be

Answer: প্রথম অংশে Past form থাকায় অপশন c)
সঠিক। শূন্যস্থানে there would be বসবে। ans. C

18. A good college history book includes _____ about history.

- a) every student knowing
- b) should every student know
- c) in that every student should know
- d) what every student should know

Answer: প্রদত্ত অপশনগুলির মধ্যে d) সঠিক। শূন্যস্থানে what every student should know বসবে। ans. D

19. In a retail store, consumers _____ the merchandise and compare brands.

- a) could inspected
- b) can be inspected
- c) can inspecting
- d) can inspect

Answer: প্রদত্ত অপশনগুলির মধ্যে d) can inspect
সঠিক। শূন্যস্থানে can inspect বসবে। ans. D

20. A female tiger signals _____ ready to mate by leaving her scratch marks & scent on trees.

- a) her
- b) that she is
- c) is she
- d) she

Answer: প্রদত্ত অপশনগুলির মধ্যে b) that she is সঠিক।
শূন্যস্থানে that she is বসালে বাকাটি অর্থপূর্ণ হবে। ans. B

Section B : Mathematics

Q. (21 to 30): Choose the correct answer: [1x 10 = 10]

21. If positive integers x and y are not both odd, which of the following must be even ?

- | | |
|----------|--------------|
| a) xy | b) x + y |
| c) x - y | d) x + y - 1 |

Answer:

ধরি, x = 2 এবং y = 3

$$\therefore xy = 2 \times 3 = 6$$

আবার, ধরি, x = 2

$$\text{এবং } y = 4$$

$$\therefore xy = 2 \times 4 = 8$$

সূতরাং অপশন সঠিক a) xy উভৰ।

ans. A

22. If the number $\frac{17}{24}, \frac{1}{2}, \frac{3}{8}, \frac{3}{4}$ and $\frac{9}{16}$ were ordered greatest to least, the middle number of the resulting sequence would be-

- | | |
|-------------------|------------------|
| a) $\frac{3}{8}$ | b) $\frac{3}{4}$ |
| c) $\frac{9}{16}$ | d) none of these |

Answer:

$$\frac{17}{24} = 0.71, \frac{1}{2} = 0.50, \frac{3}{8} = 0.38, \frac{3}{4} = 0.74 \text{ এবং } \frac{9}{16} = 0.56$$

$$\therefore 0.75 \rightarrow 0.71 \rightarrow 0.56 \rightarrow 0.50 \rightarrow 0.38 \quad \text{ans. C}$$

23. Last year if 97% of the revenues of a company came from domestic sources and the remaining revenues, totaling Tk. 450,000, come from foreign sources, what was the total of company's revenues ?

- a) Tk. 1,350,000
- b) Tk. 1,500,000
- c) Tk. 4,500,000
- d) None of these

Answer:

Revenues from domestic source = 97 %

$$\therefore \text{Revenues from foreign source} = (100 - 97) = 3\%$$

$$\text{Revenues } 3\% = 450000 \text{ Tk.}$$

$$\text{Revenues } 1\% = \frac{450000}{3} \text{ Tk.}$$

$$\text{Revenues } 100\% = \frac{450000 \times 100}{3}$$

$$= 15000000 \text{ Tk}$$

ans. D

24. If the length and width of a rectangular garden plot were each increased by 20%, what would be the percent increase in the area of the plot?

- a) 20% b) 24%
c) 36% d) 44%

Answer:

Shortcut Solution: $p + q + \frac{pq}{100} = 20 + 20 + \frac{20 \times 20}{100} = 44\%$ ans. D

25. Salem earns Tk. 8.50 per hour on days other than Sundays and twice that rate on Sundays. Last week he worked a total of 40 hours, including 8 hours on Sunday. What were her earnings for the week?

- a) Tk. 272 b) Tk. 340
c) Tk. 398 d) Tk. 408

Answer:

সওহের কাজ করে 40 ঘণ্টা।

Sunday-তে কাজ করে 8 ঘণ্টা।

সওহের বাকী দিন মোট কাজ করে $= (40 - 8) = 32$ ঘণ্টা।

32 ঘণ্টায় পার = $32 \times 8.50 = 272$ টাকা

\therefore 8 ঘণ্টায় পার = $2 \times 8.50 \times 8 = 136$ টাকা

মোট আয় = $(272 + 136) = 408$ টাকা ans. D

26. If a, b and c are constants, $a > b > c$ and $x^3 - x = (x - a)(x - b)(x - c)$ for all numbers x, what is the value of b?

- a) -3 b) -1
c) 0 d) 1

Answer: যেহেতু $a > b > c$

ধরি, $a = 1, b = 0$ এবং $c = -1$ $\therefore 1 > 0 > -1$

$$\therefore (x - a)(x - b)(x - c)$$

$$= (x - 1)(x - 0)(x + 1)$$

$$= x^3 - x$$

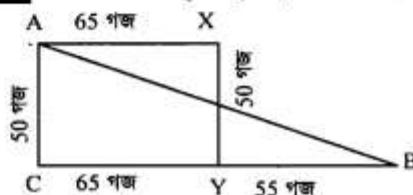
The value of b = 0

ans. C

27. Two persons, X & Y, are standing 50 yards apart on a North-South axis. X walks 65 yards to west and Y walks 55 yards to the East and both stop. Find the straight line distance in yards between these two positions?

- a) 120 b) 170
c) 130 d) 140

Answer: পিথাগোরাসের সূত্র অনুযায়ী, $AB^2 = AC^2 + BC^2$



$$\text{এখানে, } BC = BY + CY$$

$$= 55 + 65 = 120 \text{ গজ}$$

$$AB^2 = 50^2 + 120^2$$

$$= 2500 + 14400 = 16900$$

$$\Rightarrow AB = \sqrt{16900} = 130 \text{ অর্ধি, } 130 \text{ গজ} \quad \text{ans. C}$$

28. If $\frac{3}{x} = 2$ and $\frac{y}{4} = 3$, then $\frac{3+y}{x+4} = ?$

- a) $\frac{30}{11}$ b) $\frac{10}{9}$

- c) $\frac{9}{16}$ d) None of these

Answer:

$$\frac{3}{x} = 2$$

$$\Rightarrow 2x = 3$$

$$x = \frac{3}{2}$$

$$\text{And, } \frac{y}{4} = 3$$

$$y = 12$$

$$\frac{3+y}{x+4} = \frac{3+12}{\frac{3}{2}+4} = \frac{15}{\frac{3+8}{2}} = \frac{30}{11}$$

ans. A

29. A ferry can travel twice as fast when empty as when it is full. It travels 20 mile with full load, spends 1 hour for unloading and returns to its original port empty. It took 11 hours to complete the journey. What is the speed when the ferry is empty?

- a) 5
- b) 6
- c) 6.5
- d) None of these

Answer: ধরি, Ferry টির মাল বেঁকাই অবস্থায় গতিবেগ
হিল = x মাইল/ ঘণ্টা

* Ferry টির খালি অবস্থায় গতিবেগ = $2x$ মাইল/ ঘণ্টা
মাল বালাস করতে 1 ঘণ্টা লাগায় সময়বাকি থাকে = $11 - 1 = 10$ ঘণ্টা

* 20 মাইল যেতে সময় লাগে = $\frac{20}{x}$ ঘণ্টা এবং 20 মাইল ফিরে

আসতে সময় লাগে = $\frac{20}{2x}$ ঘণ্টা

$$\text{অন্তর্ভুক্ত}, \frac{20}{x} + \frac{20}{2x} = 10$$

$$\Rightarrow \frac{40+20}{2x} = 10$$

$$\Rightarrow 20x = 60$$

$$x = 3$$

Ferry টির খালি অবস্থায় গতি = $2x = 2 \times 3 = 6$ মাইল / ans. B

30. A man left Tk. 5000 to his three sons X, Y and Z. For every Taka X received, Y received Tk. 1.5 and Z received Tk. 2.5. How much money was left to Y?

- a) Tk. 750
- b) Tk. 1000
- c) Tk. 1200
- d) Tk. 1500

Answer: ধরি, x পায় = p টাকা

$$y \text{ পায়} = 1.5 \text{ or } \frac{3p}{2} \text{ টাকা}$$

$$z \text{ পায়} = 2.5 \text{ or } \frac{5p}{2} \text{ টাকা}$$

$$p + \frac{3p}{2} + \frac{5p}{2} = 5000$$

$$\Rightarrow \frac{2p + 3p + 5p}{2} = 5000$$

$$\Rightarrow 10p = 10000$$

$$p = 1000$$

$$y \text{ পায়} = \frac{3 \times 1000}{2} = 1500 \text{ টাকা}$$

ans. D

Q. (31 to 30): Read the information and answer the question: [2x 4 = 8]

When they hold a meeting seven company executives- T, U, V, W, X, Y and Z- sit at a rectangular table. Three executives sit along one side of the table, and three sit along the other side, each directly opposite one of the other three. The seventh sits at the head of the table; There is no seat at the foot of the table. U always sits in one of the two seats farthest from the head of the table. Y and V always sit next to each other. V never sits to Z. If Z does not sit at the head of the table, W sits there.

শর্তসমূহ:

- i) U টেবিলের শেষ পান্তের দুটি Chair এর একটিতে বসবে;
 - ii) $Y \leftrightarrow V$
 - iii) $V \not\leftrightarrow Z$
 - iv) Z Head না হলে Head হবে W
- অতএব এইনয়েপ্য চিহ্নিত নিম্নরূপ হতে পারে।

31. If W sits directly opposite T, X must sit next to which of the following executives ?

- a) T
- b) U
- c) V
- d) Z

Answer: W, T কে মাঝখালে দেয়া যাবে না, কারণ এতে ii
নং শর্তটি $Y \leftrightarrow V$ ভঙ্গ হয়। কাজেই U এর পাশে X বসতে
পারবে।

ans. A

32. If T sits directly opposite Z and next to V, which executive must sit directly opposite U?

- a) V
- b) W
- c) X
- d) Y

Answer: Z, T কে মাঝখালে দিলে ii নং শর্ত $Y \leftrightarrow V$ ভঙ্গ
হয়। তাই W কে Head করে ii নং শর্তনুযায়ী $Y \leftrightarrow V$
বসিয়ে Y কে U এর বিপরীত দুই পাশেই রাখতে হবে। ans. D

33. If Z sits directly opposite X, Which executive must sit next to U ?

- a) T
- b) V
- c) W
- d) Y

Answer: Z, X এর মাঝখালে দেয়া যাবে না, কারণ তাতে ii
নং শর্ত ভঙ্গ হয়। U এর পাশে T বসবে।

ans. A

34. If T and U sit immediately on either side of X, the executive sitting directly opposite X must be either-

- a) W or V b) W or Z
c) Y or V d) Y or Z

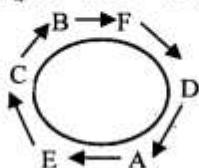
Answer: দুইভাবে U এবং T কে X এর দুইপাশে রেখে
সাজানো যেতে পারে এবং উভয় ক্ষেত্রেই দেখা যাচ্ছে যে X এর
বিপরীত পাশে অবশ্যই Y অথবা V থাকবে। *ans. B*

Q. (35 to 38): Read the information and answer the question:
[1.5 x 4 = 6]

35. Six persons A, B, C, D, E and F are standing in a circle. B is between F and C; A is between E and D; F is to the left of D. Who is between A and F?

- a) B b) C
c) D d) E

Answer: শর্তনুসারে সাজালে পাওয়া যায়:



মূলতঃ, দেখা যাচ্ছে, A এবং F মাঝখানে D আছে। *ans. C*

36. Which number will complete the series 1, 3,

7, 15, 31, 63, ____ ?

- a) 123 b) 125
c) 127 d) 129

Answer:

$$1 + 2 = 3$$

$$3 + 4 = 7$$

$$7 + 8 = 15$$

$$15 + 16 = 31$$

$$31 + 32 = 63$$

$$63 + 64 = 127$$

ans. C

37. If in a certain language PRIVATE is 1234567 and RISK is code as 2398, how is TRIVETS coded in the language?

- a) 6875431 b) 6234769
c) 7246598 d) None of these

Answer:

P = 1	R = 2	মূলতঃ
R = 2	I = 3	T = 6
I = 3	S = 9	R = 2
V = 4	K = 8	I = 3
A = 5		V = 4
T = 6		E = 7
E = 7		T = 6
		S = 9

ans. B

38. Which of the following numbers can be placed at the sign of interrogation?

4	6	3	8
2	8	4	4
6	5	?	10

- a) 7 b) 5
c) 1 d) 3

Answer অথবা,
 $4 + 6 + 3 + 8 = 21$ 1st Row: $4 \times 6 = 24 + 3 = 8$
 $2 + 8 + 4 + 4 = 18$ 2nd Row: $2 \times 3 = 16 + 4 = 4$
 $6 + 5 + 3 + 10 = 24$ 3rd Row: $6 \times 5 = 30 + 3 = 10$
 \therefore প্রথম ও দ্বিতীয় কলামের গুণফলকে
 যোগফলগুলি দ্বারা 3 নিম্নশেষে বিভাজ্য। তৃতীয় কলাম দ্বারা
 ভাগ করলে চতুর্থ কলাম পাওয়া যায়। *ans. D*

Section C : General Knowledge

Q. (39 to 44): Choose the correct answer.

$1 \times 6 = 6$

39. Bangladesh Bank is the regulator of _____.

- a) Money Market b) Capital Market
c) Commodity Market d) None

Money Market= মুদ্রা বাজার/ অর্থ বাজার, Capital Market= পুঁজি বাজার, Commodity Market= পণ্য বাজার।

ans. A

40. In British Parliament, BREXIT will was finally approved on

- a) 13th March 2017
- b) 14th March 2017
- c) 15th March 2017
- d) None of these

সম্পর্কিত তথ্য: ১৪ মার্চ ২০১৭ ব্রেক্সিট চূড়ান্তভাবে অনুমোদিত হয় আর ব্রেক্সিট প্রক্রিয়া শুরু হয় ২৯ মার্চ ২০১৭। **ans. B**

41. What is the rank of Bangladesh as per 'Human Development Index' 2016

- a) 141
- b) 140
- c) 139
- d) 138

সম্পর্কিত তথ্য: HDI -2016 অনুযায়ী বাংলাদেশের অবস্থান 139. **ans. C**

42. Out of 171 member countries, how many countries participated in IPU conference held in Dhaka.

- a) 143
- b) 171
- c) 135
- d) 147

সম্পর্কিত তথ্য: ১৩৬ তম IPU সম্মেলনে 135 দেশ অংশ গ্রহণ করে। **ans. C**

43. 'Asian Infrastructure Investment Bank (AIIB) has _____ member countries:

- a) 57
- b) 63
- c) 67
- d) 70 **ans. A**

44. Who was the 'man of the match' of the 100th test cricket match of Bangladesh ?

- a) Tamim
- b) Sakib
- c) Mushfiq
- d) None of these

সম্পর্কিত তথ্য: বাংলাদেশের শততম টেস্টে ম্যান অব দ্য ম্যাচ হন তামিম ইকবাল আর ম্যান অব দ্য সিরিজ হন সাকিব আল হাসান। **ans. A**

Part II: Descriptive Questions (MCQs);

Marks: 50; Time: 50 Minutes

Section-A: English Language & Communication

01. Translate into English:

12

জীর্ণ-পুরোনোকে বিদায় জানিয়ে বাংলা ঘরে ঘরে বাংলা নববর্ষ আসে নতুন আশা, নতুন স্বপ্ন, নতুন প্রচ্ছদ নিয়ে। এ উৎসবের সর্বজনীনতা অসাধারণ। পৃথিবীতে প্রচলিত অধিকাংশ বর্ষপঞ্জির উৎপত্তি কোনো না কোনো ধর্মের সঙ্গে সম্পর্কিত, কিন্তু বাংলা নববর্ষের সঙ্গে ধর্মীয় অনুষঙ্গ নেই। বৃষ্টিকাজ ও খাজনা সংগ্রহের ব্যবস্থাকে কেন্দ্র করেই এর প্রচলন। পরে যুক্ত হয় ব্যবসা-বাণিজ্য দেনা-পাওনা হিসাব মেটানো বা হালখাতার বিষয়। এখন প্রয়াণী বৈশাখ সব বাঙালির সর্বজনীন সাংস্কৃতিক আনন্দ উৎসব। ধর্ম-সম্প্রদায় নির্বিশেষে বাংলা ভূখন্ডের সব মানুষের প্রাপ্তের উৎসব বাংলা নববর্ষ। ঘাটের দশকে রমনা বটমুলে সূচিত ছায়ানটের বর্ষবরণ উৎসব বাঙালির আত্মপরিচয়ের আনন্দলন-সংগ্রামকে বেগবান করেছে।

Answer: Giving farewell to old and obsolete the Bengali new year comes in the house of Bengali people, with new hope, new dream and new effect. The universality of this festival is wonderful. The origin of most of the calendars in the world is related to some religion, but there is no religious affiliation with the Bengali new year. Its circulation centers on farming and levy collection. Then added to the arrears of the business and the debt settlement account or the issue of Halkhata. No Pahela Baishakh is the universal cultural festival of all Bengalis. Regardless of religion and community, the festivities of all the people of the Bengal region are Bengali New Year. In the decades of sixties, the year-welcoming festival of Chayanat in the Ramna Batamul has flourished the movement and struggle of the Bengali's self-identity.

02. Write a Essay on Importance of Good Governance in Banks'. [14]

Answer: In recent years the word good governance has become a very fashionable term and is being used in a variety of way and cover a large number of organizations both in public and private domain. This is not a new concept. It is as old as human civilization on this earth. Generally the 'Governance' refers to the process of decision making and the process by which decisions are implemented.

Good governance should also be improved in order to prevent and detect scandals and bankruptcies. As defined by wolfensohn "Good governance is about promoting good fairness, transparency and accountability." Good governance will be ensured so that foreign investment will be attracted and nobody can dare to make a fraud like 'Satyan scam' So that trade and industry will also flourish. Hoarding of stock and black marketing will be discouraged. As we all know that foreign investor are often discouraged by official who demand bribes to permit foreign investment in vital sector where foreign investments needed. When foreign investors face a high level of corruption and poor governance, they realize the higher transactions casts and shy away from the countries of poor governance. That is why some countries such as Singapore have attracted investment, while others have failed to attract adequate investments.

According to the European Banking Authority, Belgium is doing well when it comes to good governance.

Since the financial crisis, the attention for efficient risk management has been growing constantly.

Financial institutions are central to economic activity-banks and a large part of the non-banking financial system(the shadow banking system) undertake credit intermediation. Failures of financial institutions would thus impede the economic growth and would cause serious damage to the system. Economies take longer time to rebound from financial crisis than the business cycle recessions.

Banks operate on a higher leverage. As per a study by the Bank for International Settlement (BIS) for the period 1995–2009, compared to non-financial institutions that had a leverage of about 3, banks operated at a leverage of 18.3 while non-bank financial firms had a leverage of 12.1. Higher leverage takes financial intermediaries more vulnerable to shocks. From a systemic perspective, the inherent procyclicality of the financial system leads to the build up of high leverage during upturn phase of the economy which amplifies booms and busts. Therefore, while the procyclicality issues need to be dealt with from a financial stability perspective, it is apparent that these financial institutions must be well governed for achieving financial stability.

Financial institutions, especially banks, deal in people's savings and trust of customers forms the cornerstone of their existence. Any breach of trust leading to loss of confidence is bound to lead to a run, not just on a particular bank but on others too who are perceived to have weakness or even similar business models. The non bank financial intermediaries who lose the trust of their lenders would not be able to raise resources at a reasonable cost making it hard for them to operate efficiently and profitably. All these can lead to snowballing effect impairing the functioning of the entire financial system due to interconnectedness. Good governance ensures customers' and other stakeholders' trust in banks and non-banking financial intermediaries.

Banks occupy a special place, among the financial intermediaries, due to their centrality in the transmission of monetary policy and the functioning of the payment and settlement systems. They also are the beneficiaries of deposit insurance which may weaken their incentive for strong management monitoring as well as monitoring by other stakeholders including depositors. Good corporate governance would ensure strong internal controls which would offset the weakened incentive for monitoring. A robust and stable banking system is an absolute necessity for a well functioning economy

Section-B: Mathematics

Solve the problems: $3 \times 4 = 12$

03. A, B, C started a job which they can complete in 2 days. B can do the job in 5 days and C can do it in 4 days. After working for 1 day, both B and C left. How long would it take for A compete the rest of the job ?

Answer:

Let, total portion work be 1 portion ($A + B + C$)

$$1 \text{ day do the job} = \frac{1}{2} \text{ portion}$$

$$B + C \text{ 1 day do the job} = \left(\frac{1}{5} + \frac{1}{4}\right) = \frac{9}{20} \text{ portion}$$

$$\text{So, } A \text{ 1 day done} = \left(\frac{1}{2} - \frac{9}{20}\right) = \frac{1}{20} \text{ portion}$$

$$\therefore \text{Remaining work} = \left(1 - \frac{1}{2}\right) = \frac{1}{2} \text{ portion}$$

$$A \frac{1}{20} \text{ portion job done} = 1 \text{ day}$$

$$\therefore A \frac{1}{2} \text{ portion job done} = \frac{1 \times 20}{2} = 10 \text{ days}$$

04. A man's running speed is 3 times of the walking speed. He runs a distance and comes back by walking total time taken by him is 2 hours. What is the distance in miles if the runs 9 miles per hour ?

Answer:

Let, Distance = D miles

Running speed = 9 m/h

Walking speed = $\frac{9}{3}$ or 3 m/h

According to the question,

$$\frac{D}{3} + \frac{D}{9} = 2$$

$$\Rightarrow \frac{3D + D}{9} = 2$$

$$\Rightarrow 4D = 18$$

$$D = 4.5$$

05. A shirt was sold at 6% profit. If the purchase price was 4% less and the selling price was Tk. 4 more, the profit would be 12.5%. What was the purchase price of the shirt ?

Answer:

Let, cost price = x Tk.

1st selling price = $x + x \text{ of } 6\%$

$$= x + x \times \frac{6}{100}$$

$$= x + \frac{6x}{100}$$

$$= \frac{100x + 6x}{100} = \frac{106x}{100} = \frac{53x}{50} \text{ Tk.}$$

At 4% less cost price = $(100 - 4) = 96\%$

$$x \times \frac{96}{100} = \frac{96x}{100} = \frac{24x}{25}$$

$$2nd \text{ selling price} = \frac{24x}{25} + \frac{24x}{25} \times \frac{12.5}{100}$$

$$= \frac{24x}{25} + \frac{300x}{2500} = \frac{2400x + 300x}{2500} = \frac{2700x}{2500} = \frac{27x}{25}$$

According to the question, $\frac{27x}{25} - \frac{53x}{50} = 4$

$$\Rightarrow \frac{54x - 53x}{50} = 4$$

$$x = 200$$

06. Solve the question:

$$\frac{1}{2x - 5} + \frac{1}{2x - 11} = \frac{1}{2x - 7} + \frac{1}{2x - 9}$$

Answer:

$$\frac{1}{2x - 5} + \frac{1}{2x - 11} = \frac{1}{2x - 7} + \frac{1}{2x - 9}$$

$$\Rightarrow \frac{1}{2x - 5} - \frac{1}{2x - 7} = \frac{1}{2x - 9} - \frac{1}{2x - 11}$$

$$\Rightarrow \frac{2x - 7 - 2x + 5}{(2x - 5)(2x - 7)} = \frac{2x - 11 - 2x + 9}{(2x - 9)(2x - 11)}$$

$$\Rightarrow \frac{-2}{(2x - 5)(2x - 7)} = \frac{-2}{(2x - 9)(2x - 11)}$$

$$\Rightarrow 4x^2 - 40x + 99 = 4x^2 - 24x + 35$$

$$\Rightarrow 4x^2 - 40x - 4x^2 + 24x = 35 - 99$$

$$\Rightarrow -16x = -64$$

$$\Rightarrow x = \frac{-64}{-16}$$

$$x = 4$$

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1. There are several good 'reasons' 'for' to include 'a lot' of fruits and vegetables in your diet---especially 'those' that are high in beta carotene. **Find error**

- reasons
- **for**
- a lot
- those

2. The beads on the stem of 'the ice plant' are 'swollen' with 'a water' and give plant 'a moist feel' the ice plant. **Find error**

- swollen
- **a water**
- a moist feel

3. When 'planning' workplace policies, it is necessary that a manager 'considers' the politics of the civilization, such as 'how' decisions are made and who makes 'them'. **Find error**

- planning
- **considers**
- how
- them

4. Swimming is 'becoming' the sport of choice 'because' it not only tones every muscle in the body, it also 'request' 'fewer' equipment than skiing, cycling , or running. **Find error**

- becoming
- because
- **request**
- fewer

5. A female leopard is an extremely good hunter, and -----

- a lioness is
- **so is a lioness**
- does a lioness
- so be a lioness

6. ----of the three primary colors of light, it is possible to produce all other colors.

- Combine the light sources
- The light sources combining
- **Combining the light sources**
- It is combining the light sources

7. Recent linguistic research has shed light on the role played by ----regardless of their gender.

- the way people speak
- how people were spoken
- how do people speak
- people are speaking

8. Select the lettered pair that best expresses a relationship similar to that expresses in the original pair.

REQUEST : COMMAND ::

- propose : stipulate
- enlist : support
- relegate : consign
- volunteer : accept

9. Select the lettered pair that best expresses a relationship similar to that expresses in the original pair.

RENOUNCE : PLEDGE ::

- exculpate : victim
- desecrate : shrine
- redeem : honor
- rescind : order

10. Select the lettered pair that best expresses a relationship similar to that expresses in the original

pair. COWARD : CRAVEN ::

- liar : facetious
- dupe : gullible
- commentator : caustic
- judge : impartial

11. Select the lettered pair that best expresses a relationship similar to that expresses in the original

pair. SENSITIZATION : ALLERGIC ::

- immunity : vulnerable
- habituation : inured
- sleep : anesthetic
- disinfection : preventive

Math

5. If $42.42 = k(14 + m/50)$, where K and m are positive integers and $m < 50$, then what is the value of $k+m$?

- 7
- 8
- 9
- 10

৪. If $(2x-1)^2=100$, then which one of the following could equal x?
- -11/2
 - -9/2
 - **11/2**
 - 13/2
৫. A rectangular field is 3. 2 yards long. A fence marking the boundary is 11.2 yards in length. What is the area of the fields in square yard?
- 4.65
 - **7.68**
 - 9.28
 - 11.29
৬. The seventh number in a sequence of numbers is 31 and each number after the first number in the sequence is 4 less than the number immediately preceding it. What is the fourth number in the sequence?
- 15
 - 19
 - 35
 - **43**
৭. One day, Mr. Karim started 30 minutes late from home and reached his office 50 minutes late, while driving 25% slower than his usual speed? How much time in minutes does Mr. Karim usually take to reach his office from home?
- 20
 - 40
 - **60**
 - 80
৮. If $x+y=7$ and $x^2+y^2=25$, then which one of the following equals the value of x^3+y^3 ?
- 25
 - 35
 - 65
 - **91**
৯. A worker is hired for 7 days. Each day, he is paid 10 Tk. more than what he is paid for the preceding day one work. The total amount he was paid in the first 4 days of work equaled the total amount he was paid in the last 3 days. What was his starting pay?
- **90**
 - 138
 - 153
 - 160

b. In a factory, there are workers, executives and clerks. 59% of the employees are workers, 460 are executives and the remaining 360 employees are clerks. How many employees are there in the factory?

- 1500
- 2000
- 2500
- 3000

5. A survey of n people in the town of X found that 50% of them prefer Brand A. Another survey of 100 people in the town of Y found that 60% prefer Brand A. In total, 55% of all the people surveyed together prefer Brand A. What is the total number of people surveyed?

- 250
- 200
- 170
- 150

6. 'Needle' is related to 'Thread' in the same way as pen is related to

- Write
- Ink
- Cap
- Paper

7. In a certain code 786 means 'study very hard', 958 means 'hard work pays' and 645 means 'study and work which of the following is the code for 'very'?

- 8
- 6
- 7
- Can't be determined

8. Rahim says 'viju's mother is the only daughter of my mother', how is Rahim related to Viju?

- Brother
- Grandfather
- Father
- None of these

GK

9. Who is the current president of Asian Infrastructure Investment Bank (AIIB)?

- Mr. Shi Jin Ping
- Mr. Jin Liqun
- Mr. Yaobin Shi

➤ Mr. Jiang Zemin

ᬁ. 'Deep Blue' is :

- the name given to a natural take in Afghanistan where the water is crystal clear
- the deepest point in Pacific Ocean
- **an IBM super computer**
- latest car model for Ford

ᜃ. Who is thw recipient of Ekushey Padak this year?

- ATM Shamsuzzaman
- Abdur Rahman Boyati
- **Abadul Hoque**
- Sanat Kumar Saha

ᜄ. The sun generates energy from nuclear fusion of ---

- Oxygen and Hydrogen
- **Hydrogen and Helium**
- Helium and Oxgen
- Oxygen and Nitrogen

ᜅ. The art of mosque building reached its climax under -----

- Akbar
- Jahangir
- **Shah Jahan**
- Aurangzeb

ᜆ. Which country has become champion at Bangabandhu Gold Cup 2016?

- India
- **Nepal**
- Malaysia
- Bahrain

ᜇ. Grand Prix is associated with ---

- **Lawn Tennis**
- Boxing
- Volleyball
- Golf

ᜈ. Day and night are equal at the -----

- **equator**
- polls
- prime meridian
- Antarctic

ᜉ. The capital of Costa Rica is ---

- Havana
- San Jose
- Suva
- Roseau

30. The world's highest waterfall, the Angel Falls is situated in ----

- Venezuela
- USA
- Guyana
- Australia

Premier Bank Ltd - MTO - 2015

1. Fill in the blank : One of my best friends ----getting married today.

- Is
- are
- has
- will

2. Fill in the blank : Four and four ---eight.

- makes
- make
- is
- are

3. Fill in the blank : Neither the players nor the trainer ----- in the room.

- were
- was
- present
- presnts

4. Fill in the blank : John as well as his friends, -----to drop the course.

- wants
- want
- will
- shall

5. Fill in the blank : A 'Bull Market' means, that share prices are -----.

- Falling
- Rising

- Moving
- statice

6. Choose the lettered word or phrase that is most nearly opposite in meaning to word in capital letters.

ANIMOSITY

- Hostility
- Antagonism
- **Harmony**
- Spurious

7. Choose the lettered word or phrase that is most nearly opposite in meaning to word in capital letters.

BONA FIDE

- Genuine
- **Counterfeit**
- Honest
- Gallant

8. Choose the lettered word or phrase that is most nearly opposite in meaning to word in capital letters.

FRUGAL

- Thrifty
- Economical
- Parsimonious
- **Extravagant**

9. Choose the lettered word or phrase that is most nearly opposite in meaning to word in capital letters.

HILLARIOUS

- Cheeful
- Jovial
- **Despondent**
- Immotion

10. Choose the lettered word or phrase that is most nearly opposite in meaning to word in capital letters.

RANSACK

- Raid
- **Guard**
- Clean
- Plentiful

11. Choose the one which best expresses the meaning of the given idiom : To smell a rat.

- To mis understand
- To detect bad smell
- To see hidden meaning
- **To suspect a trick or deceit**

12. Choose the one which best expresses the meaning of the given idiom : **Ins and out**

- In details
- Briefly
- Summary
- None

13. Choose the one which best expresses the meaning of the given idiom : **Black sheep**

- A costly item
- dark shiny object
- **an unworthy person**
- funny Man

14. Choose the one which best expresses the meaning of the given idiom : **By and large**

- very large
- **Mostly**
- Everywhere
- Far away

15. Choose the one which best expresses the meaning of the given idiom : **Put up with**

- remove
- Violate
- **endure**
- obey

Math

1. Fill in the blank in the series : 000, 001, 011 -----

- **111**
- 101
- 010
- 110

2. The product of two numbers is 900 and their sum exceeds their difference by 30. The greater of these two number is -----

- 60
- **15**
- 75
- 90

3. Find the missing number of the series : 1/16, 1/4, ----, 4.

- 16
- 4

➤ 1

➤ 1/2

৮. If the average of four numbers K, $2k+3$, $3k-5$, and $5k+1$ is 63. What is the value of K?

➤ 11

➤ 15.75

➤ 25.5

➤ 23

৯. From 1:09 PM to 1:13 PM Arif read pages 109 to 113 of a novel. What is his rate of reading in pages per Minute?

➤ 3/5

➤ 3/4

➤ 4/5

➤ 5/4

১০. 100m দৈর্ঘ্য বিশিষ্ট একটি Train 72km বেগে চলে 25 second-এ একটি Platform অতিক্রম করলে Platform এর দৈর্ঘ্য কত?

➤ 400

➤ 300

➤ 250

➤ 100

১১. $\frac{1}{a} + \frac{1}{b} = \frac{1}{c}$ এবং $ab=c$ হলে a ও b এর গড় কত?

➤ 1

➤ 1

➤ 1/2

➤ 3

১২. The difference between the number factors of 32 and 64 is ---

➤ 3

➤ 2

➤ 1

➤ 4

১৩. If a car can drive 25 km on two litters of octane, how many litters will be needed for a trip of 150 km?

➤ 12

➤ 3

➤ 6

➤ 7

১৪. The sum of the angles of a square is :

➤ 60 degree

- 90 deerge
- **360 deerge**
- 180 deerge

55. If the area of a circle is 25π , Then decameter of the circle is -----?

- 6
- **10**
- 20
- 25

GK

1. Which is the largest economy in the world?

- **U.S.A**
- China
- Japan
- India

2. What is the capital city Australia?

- **Canberra**
- Sydny
- Melbourne
- Tasmania

3. Who is the Governor of Bangladesh Bank?

- Atiur Rahman
- Mahbub Ahmed
- **Fazle Kabir**
- Najibur Rahman

4. How many Non bank financial institution are exists in Bangaldesh.

- 31
- 56
- 39
- **33**

5. Number of Schedule Bank in Bangladesh is -----

- **56**
- 48
- 63
- 39

৪. How many percapita income in Bangladesh in 2014-15 Final year?

- \$1314
- **\$1316**
- \$1190
- \$1600

৫. In which year Bangladesh will celebrate of its independence as Golden Jubilee?

- 2017
- **2021**
- 2030
- 2041

৬. the contribution of Banking sector into our GDP?

- 3.5%
- **2.87%**
- 4.5%
- 1.5%

৭. Which is the largest Bank in the world?

- HSBC
- City Bank
- **ICBC**
- BNP Paribas

৮. 'SWIFT' Term is used in ----

- **Banking**
- Share Market
- Capital Market
- Money Market

৯. When did Albert Einstein die?

- **18 April, 1955**
- 18 March, 1945
- 10 February, 1855
- 19 April, 1755

১০. Which country won Bangabandhu Gold Cup-2015?

- Nepal
- **Malaysia**
- Bangladesh
- Bahrain

১১. By how many runs Australia beat England in Cricket World Cup -2015?

- 50 runs

➤ 3 runs

➤ **111 runs**

➤ 110 runs

১৮. To which country has Bangladesh recently started exporting rice?

➤ China

➤ **Sri Lanka**

➤ Tailand

➤ Maldives

১৯. Who was the Editor of 'Sabujpatra'?

➤ Rabindranath Tagore

➤ Kazi Nazrul Islam

➤ **Promoth Chowdhury**

➤ Mohammad Shahidullah

২০. Where is the 'headquartered ' of New Development Bank situated?

➤ **Shanghai, China**

➤ New Delhi, India

➤ Dhaka, Bangladesh

➤ Moscow, Russia

২১. How many goals are there in sustainable Development Goal of United Nations?

➤ 4

➤ 10

➤ 17

➤ **8**

২২. How many people won Ekhushey Padak in 2015?

➤ 12

➤ 13

➤ **15**

➤ 20

২৩. Which of the following countries is not a member state of United Nations?

➤ Switzerland

➤ Poland

➤ **Vatican City**

➤ Taiwan

২৪. What does FTP mean?

➤ **File Transfer Protocol**

➤ Fever Treatment Policy

➤ First Transmission Policy

- File Transfer Policy

25. 6,24,60,120,----?

- 110
- 220
- 180
- 210

26. Among the options which does not match with others?

- Rice
- Bread
- Maize
- Potato

27. TRUMPET is to play as book is to

- fun
- read
- music
- words

28. Only birds have feathers, therefore which is true? 1. All birds have feathers. 2. Snake don't have feathers. 3. Penguins have feathers.

- Only 1
- Only 2
- 1, 2, & 3
- Only 1 & 2

29. $(-8) * (-6) * (-4) * \dots * 4 * 6 * 8 = ?$

- 384
- 147456
- -147456

30. A, B, C, D & E are five students in a group. A is taller than B, C is shorter than E, A is shorter than D, B is taller than E. Who is the shortest student?

- A
- B
- C
- D

31. How many times the digit 6 will appear between the integer numbers 1 and 100?

- 12
- 10
- 11
- None of these

Q8. A Medical Doctor asked his patient, Do you have high blood pressure? The patient replied, I have not seen a doctor. What can be concluded from the above conversation?

The patient does not have high blood pressure

The patient has high blood pressure

Having high blood pressure is normal

The patient did not answer the question directly

IFC Bank Ltd - Probationary Officer - 2011

1. While the disease is in ___ state, it is almost impossible to determine its existence by ___.

- a dormant - postulate
- a critical - examination
- an acute - analysis
- a suspended - estimate
- **a latent - observation**

2. When those whom he had injured accused him of being a ___, he retorted curtly that he had never been a quack.

- reprobate
- plagiarist
- **charlatan**
- sycophant
- libertine

3. No volume in the history of economics can conclude without the hope that the subject will be ___ politics to form again the larger discipline of political economy.

- recapitulated by
- **reunited with**
- segregated from
- vindicated by
- dependent on

4. Not only the ___ are fooled by propaganda; we can all be misled if we are not ___.

- fatuous - intelligent
- illiterate - mature
- credulous - headstrong
- **gullible - wary**
- ignorant -- cynical

5. Although weeks remain for concessions to be made and for new approaches to be attempted, negotiations have reached such a state that management and union leaders are ___ that their differences can no longer be reconciled .

- skeptical
- relieved
- apprehensive
- bewildered
- encouraged

(6-9)In each question below, there is a sentence of which some parts have been jumbled up. Rearrange these parts which are labelled P, Q, R and S to produce the correct sentence. Choose the proper sequence.

6. According to an engineer (P) might hit the market next year (Q) a newly developed air-cooler system (R) that employed in conventional room coolers (S) which is based on a principle radically from

- PQRS
- **QSRP**
- RSQP
- SQRP

7. This majestic mahogany table (P) belongs to an old prince (Q) which has one leg missing (R) who is now impoverished (S) but not without some pride

- PQSR
- PRSQ
- **QPRS**
- QRSP

8. The doctor's offer (P) not only saved Julie (Q) but enabled her to blossom into a happy woman (R) from the jaws of death (S) of marriage

- PQRS
- PSQR
- **SPRQ**
- SPQR

9. In the modern times (P) certainly (Q) hijackings are (R) experienced by the air personnel (S) the most cruel form of horror

- PRQS
- **QPSR**
- RSQP
- SQPR

10. DENTURE : TEETH

- scarf : head
- toupee : hair
- fingernail : hand
- eyebrow : eye
- bandage : wound

11. SCRIPT : PLAY

- player : fan
- assignment : course
- score : symphony
- collection : story
- debate : candidate

12. BUOYANT : SINK

- frozen : melt
- liquid : evaporate
- solid : breakdown
- gaseous : expand
- insoluble : dissolve

13. LOGIC : REASONING

- ethics : behavior
- arrogance : leadership
- sensitivity : morality
- bravery : charisma
- creativity : rumination

14. MIMICRY : CAMOUFLAGE

- photosynthesis : pollination
- territoriality : migration
- hibernation : generation
- mutation : variation
- digestion : rumination

(15-18) Read the following passage carefully and choose the best answer from the alternatives.

From the 197 million square miles, which make up the surface of the globe, 71 per cent is covered by the interconnecting bodies of marine water; the Pacific Ocean alone covers half the Earth and averages near 14,000 feet in depth. The portions which rise above sea level are the continents – Eurasia, Africa; North America, South America, Australia, and Antarctica. The submerged borders of the continental masses are the continental shelves, beyond which lie the deep – sea basins.

The ocean are deepest not in the center but in some elongated furrows, or long narrow troughs, called deeps. These profound troughs have a peripheral arrangement, notably around the borders of the pacific and Indian oceans. The position of the deeps, like the highest mountains, are of recent origin, since otherwise they would

have been filled with waste from the lands. This is further strengthened by the observation that the deeps are quite often, where world-shaking earthquakes occur. To cite an example, the "tidal wave" that in April, 1946, caused widespread destruction along Pacific coasts resulted from a strong earthquake on the floor of the Aleutian Deep.

The topography of the ocean floors is none too well known, since in great areas the available soundings are hundreds or even thousands of miles apart. However, the floor of the Atlantic is becoming fairly well known as a result of special surveys since 1920. A broad, well-defined ridge – the Mid – Atlantic ridge – runs north and south between Africa and the two Americas and numerous other major irregularities diversify the Atlantic floor. Closely spaced soundings show that many parts of the oceanic floors are as rugged as mountainous regions of the continents. Use of the recently perfected method of submarine topography. During world war II great strides were made in mapping submarine surfaces, particularly in many parts of the vast Pacific basin.

Most of the continents stand on an average of 2870 feet above sea level. North America averages 2300 feet; Europe averages only 1150 feet; and Asia, the highest of the larger continental subdivisions, averages 3200 feet. Mount Everest, which is the highest point in the globe, is 29,000 feet above the sea; and as the greatest known depth in the sea is over 35,000 feet, the maximum relief (that is, the difference in altitude between the lowest and highest points) exceeds 64,000 feet, or exceeds 12 miles. The continental masses and the deep-sea basins are relief features of the first order; the deeps, ridges, and volcanic cones that diversify the sea floor, as well as the plains, plateaus, and mountains of the continents, are relief features of the second order. The lands are unendingly subject to a complex of activities summarized in the term erosion, which first sculptures them in great detail and then tends to reduce them ultimately to sea level. The modeling of the landscape by weather, running water, and other agents is apparent to the keenly observant eye and causes thinking people to speculate on what must be the final result of the ceaseless wearing down of the lands. Much before there was any recognizable science as geology, Shakespeare wrote "the revolution of the times makes mountains level."

15. The peripheral furrows or deeps are found

- only in the pacific and Indian oceans
- near earthquakes
- **near the shore**
- in the center of the ocean
- to be 14,000 feet in depth in the pacific.

16. The continental masses

- Rise above sea level
- Consist of six continents
- Are relief features of the second order
- **Are partially Underwater**
- Comprise 29 per cent of the earth's surface.

17. The largest ocean is the

- Atlantic
- **pacific**
- Aleutian deep
- arctic
- Indian.

18. The "Revolution of the the times" as used in the final sentence means-

- The current rebellion

- The passage of years
- The science of geology
- The action of the ocean floor
- The overthrow of natural forces

Math

5. The area of a rectangle is 200 sq. meter . If the length is twice the breadth , what is the perimeter of the rectangle ?

- None of these
- 50
- 60
- 40

6. Perimeter of rectangle is 200 meter. Its width is $\frac{3}{7}$ of its length . What is the length in meter ?

- 60
- 50
- 90
- 70

7. A company makes a profit of 5% in its first TK. 1000 of sales each day , and 4% on all sales in excess of TK. 1000 for that day . What would be the profit of the company in day when sales are TK. 6000 ?

- 200
- 225
- 250
- 255

8. How much interest will TK. 2000 earn at an annual rate of 10% in one year if the interest is compounded every 6 months ?

- 200
- 210
- 220
- None of these

9. The monthly salary of a person is increased by 10% in one month, but is decreased by 10% in the next month . What is the age of their father ?

- 0% increase
- 2% decrease
- 5% increase
- None of these

8. Average age of three brothers is 16 years . Average age of these brothers along with their father is 25 years. What is the age of their father ?

- 42
- 52
- 41
- 45

9. If a number of divisible by 102, then it is also divisible by :

- 23
- 11
- 5
- 2

10. The compound interest at 10% per annum on a certain amount of money for two years is TK. 10.50.

Then what is the principal amount in TaKa ?

- 40
- 50
- 75
- 100

11. With 12.50% simple interest rate how many years are needed for a principal to get double ?

- 8
- 7
- 6
- 5

12. $\sqrt{(6)(20) + \frac{245}{5}} ?$

- $4\sqrt{20}$
- 24
- 25
- 13

13. If $\log_{\frac{1}{a}} = 1$, what is the base?

- a^2
- a
- a^{-1}
- 10

14. Given $\frac{x}{2} + 3 = \frac{x}{3} + 4$, find the value of x.

- 7
- 50

- 60
- None of these

GK

1. Walk is related to run in the same way as Breeze is related to :

- Air
- Dust
- Wind
- Cold

2. Which one pair of numbers is different from rest three ?

- 19,27
- 16,24
- 15,23
- 13,21

3. Which one number does not belong to the following series ? 3, 5, 8, 11, 17, 23

- 8
- 11
- 17
- 23

4. If P is the husband of Q and R is the mother of S and Q , how R is related to P ?

- Mother
- Aunt
- Sister
- Mother in law

5. The world's oldest known city is -

- Venice
- Delhi
- Damascus
- Rome

6. The river which carries maximum quantity of water into the sea is -

- Amazon
- Nile
- Ganges
- Indus

7. The permanent secretariat of the SAARC is located at -

- Delhi

➤ Dhaka

➤ Islamabad

➤ **Kathmandu**

↳ 'Paradise Lost' was written by -

➤ Lord Byron

➤ **John Milton**

➤ Percy B. Shelley

➤ William Shakespeare

↳ The author of the "Harry Potter" series of books is -

➤ **J.K. Rowling**

➤ Mary Stillette

➤ John Kinsey

➤ Robert Sutton

↳ Which country hosted the Football World Cup in 2006 ?

➤ Spain

➤ Brazil

➤ **Germany**

➤ Argentina

↳ Who designed the first computing machine in the world ?

➤ John Von Neumann

➤ Sir Isaac Newton

➤ **Charles Babbage**

➤ Bill Gates

↳ What is the most common of all the metal in the earth's crust ?

➤ **Aluminum**

➤ Iron

➤ Copper

➤ Lead

↳ What was Thailand called previously ?

➤ **Siam**

➤ Laos

➤ Bantuland

➤ Elephantand

↳ Which country was the final venue of the first Cricket world Cup ?

➤ India

➤ Australia

➤ **England**

- South-Africa

Shahjalal Islami Bank Ltd - TAO - 2013

1. Identify the one quotation word or phrase that must be changed in order to make the sentence correct. 'The' council set off 'controversial' by its 'strong' position on 'wildlife' management.
 - the
 - **controversial**
 - strong
 - wildlife
2. Identify the one quotation word or phrase that must be changed in order to make the sentence correct. In 'ancient' Greek 'traditional', weapons and 'stable' gear were placed upon the 'grave'.
 - ancient
 - **traditional**
 - stable
 - grave
3. Identify the one quotation word or phrase that must be changed in order to make the sentence correct. During the 'bleak' winter, food became 'too' scarce that 'starvation' and famine were 'widespread'.
 - bleak
 - **too**
 - starvation
 - widespread
4. Identify the one quotation word or phrase that must be changed in order to make the sentence correct. 'Unlike' a tractor 'is', a mule 'won't turn' on a steep hillside 'and' crush the driver.
 - unlike
 - **is**
 - won't turn
 - and
5. Identify the one quotation word or phrase that must be changed in order to make the sentence correct. There is not 'enough room' in zoos 'to house' all the 'others' subspecies that need 'preserving'
 - enough room
 - to house
 - **others**
 - preserving

6. Choose the one which can be substituted for the given words/phrase. A government by the nobles ----

- Democracy
- Autocracy
- Bureaucracy
- **Aristocracy**

7. Choose the one which can be substituted for the given words/phrase. Anything written in a letter after it is signed ---

- Posterity
- **Postscript**
- Post diction
- Corrigendum

8. Choose the one which can be substituted for the given words/phrase. Large scale departure of people ----

- Migration
- Emigration
- Immigration
- **Exodus**

9. Choose the one which can be substituted for the given words/phrase. A song embodying religious and sacred emotions ---

- Lyric
- Ode
- **Hymn**
- Ballad

10. Choose the one which can be substituted for the given words/phrase. The study of ancient societies - ---

- History
- Anthropology
- Ethnology
- **Archaeology**

11. Select the word or phrase which is closest to the opposite in meaning of the quotation word or phrase. Our leader led a very 'austere' life.

- Bolsterous
- Luxurious
- Eventful
- **Adventurous**

12. Select the word or phrase which is closest to the opposite in meaning of the quotation word or phrase. He has a 'delicate' constitution.

- fit
- Ungainly
- **Strong**
- Rugged

13. Select the word or phrase which is closest to the opposite in meaning of the quotation word or phrase. The place was indeed 'grotesque'.

- Good
- **Decent**
- filthy
- Congruous

14. Select the word or phrase which is closest to the opposite in meaning of the quotation word or phrase. All his neighbour are aware of his 'acrimonious' nature.

- Informal
- Sympathetic
- **Cooperative**
- Charitable

15. Select the word or phrase which is closest to the opposite in meaning of the quotation word or phrase. Such 'Lofty' dreams can never come true.

- **Puny**
- Humble
- Insignificant
- Casual

16. From each of the following questions, find out which part of the sentence has an error. 'No stronger 'a figure than his' 'is prescribed in the history'. 'No error'

- no stronger
- **a figure than his**
- is prescribed in the history
- no error

17. From each of the following questions, find out which part of the sentence has an error. 'The rate of growing' 'may be different for different people' 'but old age spares none'. 'No error.'

- **the rate of growing**
- may be different for different people
- but old age spares none
- no error

18. From each of the following questions, find out which part of the sentence has an error. 'Had I come 'to known about his difficulties' 'I would have certainly helped'. 'No error'

- had I come

- to known about his difficulties
- I would have certainly helped
- no error

19. From each of the following questions, find out which part of the sentence has an error. 'This is the boy' 'whom I think had won' 'the gold medal in the dance competition'. 'no error'

- this is the boy
- whom I think had won
- the gold medal in the dance competition
- no error

20. From each of the following questions, find out which part of the sentence has an error. 'Being a very' 'hot day I' 'remained indoors' 'no error'

- being a very
- hot day
- remained indoors
- no error

21. The teacher ordered Kamal to leave the room and -----him to return.

- stopped
- refused
- forbade
- challenged

22. I hope you must have -----by now that failures are the stepping stones to success.

- known
- felt
- decided
- realised

23. Cholera is mainly -----through contaminated food and drinks.

- conducted
- transferred
- circulated
- transmitted

24. He was not willing to accept the -----

- wrong
- blame
- fault
- sorry

25. They have -----up the deficit.

- covered

- filled
- made
- pulled

Math

1. A large field of 1400 acres is divided into two parts. The difference of the areas, of the two parts is one-fifth the average of the two areas. Thus, the area of the smaller part is :

- 770 acres
- **630 acres**
- 600 acres
- 540 acres
- 740 acres

2. The area of the floor of auditorium is 600 sq. m. How many unbroken tiles of dimension 10×30 cm² will be required to cover the floor completely?

- 10,000
- **20,000**
- 35,000
- 15,000
- Cannot be determined

3. The age of B is half the sum of the ages of A and C. If B is 2 years younger than A and C is 32 years old, then the age of B must be ---

- 28
- 30
- 32
- **34**
- 36

4. If x and y are perfect squares, then which of the following is not necessarily a perfect square?

- x^2
- xy
- $4x$
- **$x+y$**
- x^5

5. One student is asked to divide a half of a number by 6 and other half by 4 and then to add the two quantities. Instead of doing so the student divides the given number by 5. If the answer is 4 short of the correct answer then the actual answer is :

- 320

- 400
- **480**
- 350
- None of these

↳ If simple interest on a certain sum of money is Tk. 256 and the rate of interest per annum equals the number of years, then the rate of interest is :

- 13%
- 14%
- **16%**
- 18%
- none of these

♀. Drum X is $\frac{1}{2}$ full of oil and drum Y, which has twice the capacity of drum X, is $\frac{2}{3}$ full of oil. If all of the oil in drum X is poured into drum Y, then drum Y will be filled to what fraction of its capacity?

- $\frac{3}{4}$
- $\frac{5}{6}$
- **$\frac{11}{12}$**
- $\frac{7}{6}$
- $\frac{11}{6}$

GK+Islam

↳ SDR is the currency unit of ----

- IDA
- ADB
- IBRD
- **IMF**
- SAFTA

↳ The book titled "The Ultimate Fate of the Universe" is written by the scientist ---

- Satyendra Nath Bose
- **Jamal Nazrul Islam**
- Abdus Salam
- C.V. Raman
- Meghnad Saha

↳ The currency of Brazil is ---

- Yuan
- Fran

➤ Brazilian Dollar

➤ **Real**

➤ Presso

8. The lady freedom fighter in the liberation war who was awarded "Bir Protik" is---

➤ Nilima Ibrahim

➤ Begum Sufia Kamal

➤ **Setara Begum**

➤ Anujman Ara

➤ Jahanara Begum

Q. Which sector contributes most to the GDP in Bangladesh at present?

➤ Garments Sector

➤ Foreign Remittance

➤ Agriculture

➤ **Service Sector**

➤ SME Sector

b. The largest district of Bangladesh in respect of area ----

➤ Dhaka

➤ **Rangamati**

➤ Banderban

➤ Khagrachari

➤ Mymensingh

q. Balanced food consists of ---ingredients.

➤ **6**

➤ 5

➤ 4

➤ 8

➤ 3

b. Which one is the biggest island of Bangladesh?

➤ Saint Martin

➤ Sandwip

➤ Kutubdia

➤ **Bhola**

➤ Moheskhali

q. Refrigerators keep food unspoiled because ---

➤ **at its low temperature, bacteria and moulds are inactive**

➤ at its low temperature, the germs are killed

➤ at its low temperature, the germs are frozen

- it sterilizes the food
- none of these

১০. Which of the following Poets died from a road accident?

- Abul Hasan
- Sudhindranath Dutta
- Bishnu Dey
- Hasan Hafizur Rahman
- **Jibanananda Das**

১১. Which of the country is a member of OIC although majority of the people are not Muslim ?

- **Uganda**
- Nigeria
- Lebanon
- Syria
- none of these

১২. "Namaz-e-Istisqa" is prayed for ---

- Blessing of God
- Pardon
- **Rain**
- Sleep
- none of these

১৩. What is the number of Ramadan month in the Islamic Calendar?

- 8th
- **9th**
- 10th
- 11th
- none of these

১৪. "Every Soul shall have a taste of death". in which surah of The Holy Qur'an this statement has been mentioned?

- **Al-i-Imran**
- Al-Baqarah
- Ya-sin
- Al-Tauba
- none of these

১৫. Who is the writer of the religious book ---"Mareful Qur'an"?

- Maulana Mohiuddin Khan
- Maulana Abdur Rahim (Rahmatullah alaih)
- Maulana Ashraf Ali Thanvi (Rahmatullah alaih)

- Mufti Mohammad Shafi (Rahmatullah alaih)
- none of these

Shahjalal Islami Bank Ltd - MTO - 2011

1. Find out which quotation part of the following sentences has an error. A 'more' sense of 'ethics' and 'integrity' is expected of a 'physician'.

- more
- ethics
- integrity
- physician

2. Find out which quotation part of the following sentences has an error. The use of 'fossil' fuel is 'more' 'worse' for the 'environment'.

- fossil
- more
- worse
- environment

3. Find out which quotation part of the following sentences has an error. In an 'epidemic', 'unprotected' children remain 'lesser' 'vulnerable'.

- epidemic
- unprotected
- lesser
- vulnerable

4. Find out which quotation part of the following sentences has an error. A person 'can' be called 'guilty' until 'proven' in a court of 'law'.

- can
- guilty
- proven
- law

5. Find out which quotation part of the following sentences has an error. The news of Musa Ibrahim's 'ascent' to 'Mt' Everest brought 'proud' and joy for all 'Bangladeshis'.

- ascent
- mt
- proud
- bangladeshis

6. By nature, Imran was-----, given to striking up casual conversation with strangers he encountered at bus stops.

- Diffident
- Observant
- Reticent
- **Gregarious**

7. Fame is ---; today's rising star is all too soon tomorrow's washed-up has been.

- Rewarding
- Gradual
- **Transitory**
- Spontaneous

8. She pointed out that his resume was -----because it merely recorded his precious positions and failed to highlight the specific skills he had mastered in each job.

- Disinterested
- **Inadequate**
- Conclusive
- Obligatory

9. The patient bore the pain -----, neither wincing nor whimpering when the incision was made.

- Poorly
- Marginally
- **Stoically**
- Sardonically

10. By communication through pointing and making gestures, he was able to overcome any----- difficulties that arose during his recent trip to China.

- **Linguistic**
- Plausible
- Monetary
- Territorial

11. Select the lettered pair that best expresses a relationship similar to that expressed in the original pair in capital letters. **MINISTER : SERMON**

- politician : promises
- doctor : diagnosis
- curator : museum
- **lecturer : speech**

12. Select the lettered pair that best expresses a relationship similar to that expressed in the original pair in capital letters. **TELLER : BANK**

- artist : museum

- cashier : cheque
- **waiter : restaurant**
- borrower : loan

13. Select the lettered pair that best expresses a relationship similar to that expressed in the original pair in capital letters. **ARCHIPELAGO : ISLAND**

- peninsula : strait
- **cluster : star**
- border : nation
- nucleus : atom

14. Select the lettered pair that best expresses a relationship similar to that expressed in the original pair in capital letters. **TIFF : QUARREL**

- conflagration : fire
- truce : battle
- **peccadillo : offence**
- fib : argument

15. Select the lettered pair that best expresses a relationship similar to that expressed in the original pair in capital letters. **PLUMAGE : BIRD**

- **fleece : sheep**
- hive : bee
- foliage : horse
- forage : cattle

Math

1. A school has a total enrollment of 90 students. There are 30 students taking Physics, 25 taking English, and 13 taking both. What percentage of the students are taking either Physics or English?

- 30%
- 36%
- **47%**
- 51%
- 58%

2. If 4% of (P+Q) is 8 and P is a positive integer, what is the greatest possible value of Q?

- 196
- 197
- 198
- **199**

➤ 200

⑤. If $(x^2-4)(4/x-5)=0$, then $x=?$

➤ -4

➤ -1

➤ -4/5

➤ **4/5**

➤ 4

8. What is the absolute value of twice the difference of the roots of the equation $5y^2-20y+15=0$?

➤ 5

➤ 1

➤ **2**

➤ 3

➤ 4

⑥. Rina and shila entered into a partnership with their capitals in the ratio 5 : 6. At the end of 8 months, Rina withdraws her capital. If they receive the profit in the ratio of 5 : 9, find how long shila's capital was used?

➤ 10 months

➤ **12 months**

➤ 14 months

➤ 16 months

➤ 18 months

⑦. Three coins are tossed. Find the probability of at least one head and one tail.

➤ 1/2

➤ 1/4

➤ 3/4

➤ **2/3**

➤ none of these

⑧. Three time the present age of a father is equal to eight times the present age of his son. Eight years hence the father will be twice as old as his son at that time. What are their present ages?

➤ 35, 15

➤ **32, 12**

➤ 40, 15

➤ 27, 8

➤ 35, 25

⑨. If $x>y>0$ and $p>q>0$, then which one of the following expressions must be greater than 1?

➤ **$x+p/y+q$**

➤ $x+q/y+p$

- x/p
- xq/yp
- yq/xp

GK+Islam

3. The author of the book Arms and the Man is

- William Shakespeare
- Lewis Carol
- Erich Maria Remarque
- **George Bernard Shaw**

4. A body has a mass M and a weight W on Earth. If it is taken to the moon

- Both M and W will remain the same
- Both M and W will change
- **M will remain the same but W will decrease**
- W will remain the same but M will decrease

5. Which is known as the 'media moghul'?

- Bill Gates
- Tata
- **Rupert Murdoch**
- Rockefeller

6. Which of the following is not a name of a Greek god?

- Pluto
- **Earth**
- Jupiter
- Neptune

7. What is the largest man made structure of the world?

- Petronas Tower
- Pyramid of Giza
- Eiffel Tower
- **The Great Wall of China**

8. 'The Last Supper' was painted by ----

- Michelangelo
- Raphael
- Botticelli
- **Leonardo da vinci**

q. ISBN is related to ----

- TV Channel
- Books and Publications
- Green house
- UN peace keeping force

b. Shakespeare's 'King Lear' is a ----

- Comedy
- Historical Play
- Tragedy
- Satire

8. Which country has no sea port?

- Maldives
- Nepal
- Greece
- Venezuela

9. Apartheid in South Africa was concerned with ----

- Tribal conflict
- Separation of black and white race
- Trade sanctions
- Freedom movement

10. "So establish weight with justice and fall not short in the balance." In which Surah of The Holy Qur'an has the above verse been stated?

- Al-Baqarah
- Ya-Sin
- Ar-Rahman
- Al-Mulk

11. Who among the following is a world famous chemist?

- Jaber Ibne Haiyan
- Ibne Sina
- Omar Khaiyam
- Al Beruni

12. There are five Mosques mentioned in the Qur'an, Masjid Al-Haram, al-Nabi, al-Aqsa, quba and ---- -?

- Masjid al-Qiblatain
- Masjid Omar
- Masjid al-Aqabah
- Masjid al-Zirar

١٨. Who was the first woman martyr among the muslims (Shahid)?

- Hajrat Fatima (Radhiyallaho anha)
- Hajrat Asma (Radhiyallaho anha)
- **Hajrat Sumaiya (Radhiyallaho anha)**
- Hajrat Khadeja (Radhiyallaho anha)

١٩. Which one is the first Ayat in the Holy Quran in respect of riba (interest)?

- Surah An-Nisaa : 130
- Surah Al-Imran : 123
- Surah Ar-Rum : 39
- **Surah Al-Baqarah : 275**

٢٠. Which one of the following Holy book was revealed to Hajrat Daud (Peace be upon him)?

- Taurat
- **Jabur**
- Injeel
- Al-Quran

٢١. In which Surah women's rights have been stated?

- Surah At- Tauba
- **Surah An-Nisaa**
- Surah Al-Hadid
- Surah Al-Hashr

٢٢. Which one of the following is courageous deed in the eye of Islam?

- To perform Salaata
- To perform solemn deed
- **Not to yield to injustice**
- To keep patience in danger

٢٣. Who introduced Harkat in the Holy Quran?

- Hajrat Umar (Radhiyallaho anho)
- Hajrat Uthman (Radhiyallaho anho)
- Hajrat Mohammad (Sallallaho alaihe wassallam)
- **Hajjaz Bin-Yousuf (Radhiyallaho anho)**

٢٤. With how many disciples was 'Ashabe Suffa' constituted?

- **70**
- 100
- 313
- 700

Social Islami Bank Ltd - PO - 2013

(1-5) Read the following passage carefully and answer the questions based on it.

$1 \times 5 = 5$

Rajib Hassan, a factory superintendent of the ABC Company, takes trips through the factory at different hours and on different days. He likes to talk with the operative employees and ask them questions about their work, the families, the material they are using and the machine being operated. He believes that such conversation makes for better morale and also lets him know what is taking place in the factory.

Every Monday morning at the production meeting, he brings up some aspects of information picked up from the previous week's factory visits and asks for an explanation of it. Usually his production management personnel answers him, but Hassan continues asking about other bits of information he received until his associates are unable to answer or inform him that he has incorrect information. Hassan, however, insists that the operative employees are telling him the truth and sometimes he points out that the same information is given to him by different employees in different departments. Some of his associates have suggested that they accompany Hassan during his factory tours, but he will have no part of this, stating that more than one management member is with him. He claims the friendly, sincere atmosphere he has achieved with many of the workers in the factory is a definite advantage and helps communication, and he does not want to jeopardise it in any way.

Rajib Hassan is not entirely satisfied with his production control manager, Anwar Hossain, who just does not seem to comprehend what he is told. Hassan admits the manufacturing work is getting quite complicated, but it irks him when Anwar Hossain just stands there and replies, 'yes', 'yes', 'yes'. Hassan has noticed that Anwar Hossain says he understands a request or a suggestion or a change given to him, but then proceeds to go about his work as if nothing had been said to him.

1. The focus of this passage is on

- factory management
- production control
- **factory management**
- efficient supervision
- None of them

2. Rajib Hassan's factory visits are intended to

- create good will for the economy
- boost the workers' morale

- know the whole truth about the way things are going on
- identify the personal problems of the operative staff
- None of them

3. According to the passage , the information received by Rajib Hassan during his visits is

- incorrect
- biased
- exaggerated
- **reliable**
- None of them

4. Rajib Hassan does not want to visit the factory along with his associates because

- it will expose his weaknesses as a superintendent
- it will create an atmosphere of conformation among officers and subordinates
- the officers accompanying him will feel embarrassed
- **the atmosphere will not be conducive to his real purpose**
- None of them

5. Rajib Hassan is not fully satisfied with Anwar Hossain because of his

- **poor understanding**
- obstinacy
- hypocrisy
- flattering words
- None of them

Q. (6-10) Rearrange the following eight sentences A, B, C, D, E, F, G and H in the proper sequence to form a meaningful paragraph; then answer the questions given below them. 1x5=5

- A. But I always felt somewhere in my mind that I loved acting.
- B. He never wanted me to be an actor, as he didn't look upon theatre or acting as respectable vocation.
- C. Firstly, there was no tradition of theatre in my family.
- D. I am talking specifically of acting, not theatre in general.
- E. My parents were old-fashioned.
- F. I will answer all your queries a little elaborately.
- G. Let alone theatre, arts in general had no place of respect in my family.
- H. My father was a government servant.

6. which of the following will be the LAST sentence?

- G
- C

- H
- D
- E

7. which of the following will be the SIXTH sentence ?

- A
- B
- D
- C
- F

8. which of the following will be the FOURTH sentence?

- D
- E
- A
- B
- G

9. which of the following will be the THIRD sentence?

- H
- E
- G
- B
- G

10. "The" institute encouraged the "participation" of teachers by providing "them" with travel expenses and "loading" **Find error**

- The
- participation
- them
- loading
- No error

11. Special elastic "ligament" allow "the" whale's "jaws" to accommodate "its" wide-angle bites. **Find error**

- ligament
- the
- jaws
- its
- No error

12. "Inevitably" scholars disagree on "an" authenticity of many objects whose "origins" are "unknown"
Find error

- Inevitably
- **Inevitably**
- origins
- unknown
- No error

13. The "anthropologist" is "interested not" in the "actions" of an individual , but in the social "significant" of these actions. **Find error**

- anthropologist
- interested not
- actions
- **significant**
- No error

14. In the "novel" everyone "they" encounter "try"to thwart their "efforts" **Find error**

- novel
- they
- **try**
- efforts
- No error

Math

↳ In the formula $e = hf$. if e is doubled and f is halved , what happens to the value of h?

- h remains tehe same
- h is doubled
- h is divided by 4
- **h is multiplied by 4**
- h is halved .

↳ what is the maximum number of $3 * 3$ squares that can be formed from the squares in the $6 * 6$ checker board to the right?

- 4
- 6
- 12
- **16**
- 24

↳ A train went 300 miles from City X to city Y at an average rate of 80 mph. At what speed did it travel on teh way back if its average speed for the whole trip was 100 mph?

- 120 mph
- 125 mph
- **133 1/3 mph**
- 137 1/2 mph
- 150 mph

8. which of the following figures has the smallest perimeter of circumference?

- a circle with a diameter of 2 feet
- **a square with a diagonal of 2 feet**
- a rectangle with sides of 6 inches and 4 feet
- a pentagon with each side equal to 16 inches
- a hexagon with each side equal to 14 inches

Q. If $A + B + C = 10$, $A + B = 7$ and $A - B = 5$, what is the value of c?

- 1
- **3**
- 6
- 7
- None of them

Q. In a class of 200 students , 40 percent are girls . 25 percent of the boys and 10 percent of the girls signed up for a tour to Cox's bazar . What percent of the class signed up for the tour?

- **19%**
- 23%
- 25%
- 27%
- 35%

Q. A particular carmaker sells four models of cars , and each model comes with 5 options. How many different types of cars does the carmaker sell?

- 15
- 16
- 17
- 18
- **20**

Q. Ahmad has containers of two different sizes. The total capacity of 16 containers of one size is x gallons, and the total capacity of 8 containers of the other size is also x gallons , and $x > 0$. In terms of x , what is the capacity, in gallons, of each of the larger containers?

- $4x$
- $2x$
- $x/2$

➤ **x/8**

➤ x/16

↳ If n is any negative number, which of the following must be positive?

➤ n/2

➤ 2n

➤ n +2

➤ n -2

➤ **2 -n**

↳ Successive discounts of 20% and 12% are equivalent to a single discount of:

➤ 16.0%

➤ **29.6 %**

➤ 31.4%

➤ 32.0%

➤ 33.7%

↳ Two equal glasses are respectively 1/3 and 1/4 full of milk. They are then filled up with water and the contents mixed in a tumbler .What is the ratio of milk and water in the tumbler?

➤ 7 : 14

➤ **7 : 17**

➤ 7 : 15

➤ 7 : 13

➤ 7 : 2

GK

↳ Many breakfast cereals are fortified with vitamin supplements , some of these cereals provide 100 percent of the recommended daily requirement of vitamins. Nevertheless, a well -balanced breakfast, including a variety of foods is a better source of those vitamins than are such fortified breakfast cereals alone.

➤ **In many foods , the natural combination of vitamins with other nutrients makes those vitamins more usable by the body than are vitamins added in vitamin supplements.**

➤ People who regularly eat cereals fortified with vitamin supplements sometimes neglect to eat the foods in which the vitamins occur naturally.

➤ Foods often must be fortified with vitamin supplements because naturally occurring vitamins are removed during processing .

➤ Unprocessed cereals are naturally high in several of the vitamins that are usually added to fortified breakfast cereals.

- Cereals containing vitamin supplements are no harder to digest than similar cereals without added vitamins.

2. Pharmacists recently conducted a study with respect to the reasons their customers purchased eye drops to soothe eye dryness. Dry eyes were more frequently experienced by customers who wore contact lenses than by customers who did not wear contact lenses. The pharmacists concluded that wearing contact lenses, by itself, can cause contact wearers to have dry eyes.

- An inherited condition can cause both weak eyesight and dry eyes
- **Physical exertion causes dry eyes in many people who wear contact lenses.**
- Most people who have dry eyes do not wear contact lenses.
- Most people who wear contact lenses do not have dry eyes.
- Both weak vision and dry eyes cause headaches.

Q(3-6) Read the following information carefully and choose the best answer from the alternatives.

A manager who has exactly four projects- F, G, H and I to undertake in a given month has made the following determinations:

F has priority over G

H has priority over I

If one project has priority over another, the project with priority must be started earlier than the other one.

Q. Given only the determination above, each of the following is a possible sequence in which the four projects could be started EXCEPT

- F, G, H, I
- F, H, G, I
- F, H, I G
- H, F, I G
- **H, G, F, I**

8. If each of the projects takes equally long to complete , it must be true that

- F is completed before H is completed
- F is completed before I is completed
- G is completed before H is completed
- H is completed before G is completed
- **H is completed before I is completed**

Q. There would be exactly one order in which the four projects would have to be started if it were determined that

- F has priority over H
- F has priority over I
- H has priority over G

- I has priority over F
- **I has priority over G**

8. which of the following pairs of additional determinations would NOT conflict with the priorities initially determined?

- F has priority over H, and I has priority over F .
- **F has priority over I , and H has priority over G .**
- G has priority over H, and H has priority over F.
- G has priority over H. and I has priority over F.
- G has priority over I, and I has priority over I , and I has priority over F.

9. In 2001 , how many categories each comprised more than 25 million workers?

- One
- Two
- **Three**
- Four
- Five

10. what is the ratio of the number of workers in the Agricultural category in 2001 to the projected number of such workers in 2015?

- 1/3
- **9/14**
- 3/7
- 4/13
- 5/12

11. From 2001 to 2015, there is a projected increase in the number of workers in which of the following categories?

- sales
- service
- Clerical
- Agricultural
- **None of them**

12. which letter is out to place in the following series?

- O
- M
- **T**
- L
- I

13. which number can be placed at the sign of interrogation?

- 12

- 16
- 8
- 4
- None of them

32. In a certain code "TABLE" is written as WDEOH. How would 'SKY' be written in that code?

- VNB
- TBN
- BNY
- NYB
- None of them

33. Retard is to Impel as Obfuscate is to

- Hallucinate
- confuse
- Irradiate
- Dampen
- None of them

34. The source of solar energy is

- nuclear fission
- nuclear fusion
- sinking of the sun
- Both a & b
- None of them

35. A person of which of the following blood groups can receive blood of any group?

- A
- AB
- B
- O
- None of them

36. who was the last Mughal Emperor?

- Aurangzeb
- Farrukh shah
- Bahadur shah II
- Shaista khan
- Humayun

37. who compiled and edited the documents of liberation war of Bangladesh?

- Hasan Hafuzur Rahman
- Sanaul Hoque

- Hasan Azizul Hauq
- Alauddin Al Azad
- Syed Shamsul Hoque

୧୮. `One nautical mile+?

- 2.25 km
- **1.852 km**
- 1.5 km
- 1.472 km
- None of them

୧୯. who wrote introduction of the book 'song offerings' of Rabindranath Tagore?

- Rabindranath Tagore
- **W.B, Yeats**
- George Eliot
- Robert Browning
- Robert Frost

୨୦. which Arabian Country first recognized Bangladesh as an independent country?

- **Iraq**
- Saudi Arabia
- Kuwai
- Egypt
- UAE

୨୧. Tides are caused by the

- **gravitational attraction of the sun & the moon on earth's surface**
- earthquakes
- violent winds
- volcanoes
- None of these

୨୨. "Democracy is a government of the people, by the people, for the people, This statement is attributed to-

- Rousseau
- Montague
- Voltaire
- **Abraham Lincoln**
- George Washington

୨୩. Guantanamo Bay detection camp located in

- USA
- UK

➤ Canada

➤ Cuba

➤ Costarica

২৪. which country is borders by both the Atlantic and Indian Ocean?

➤ India

➤ South Africa

➤ Japan

➤ China

➤ None of them

২৫. where do most of the Manipuri ethnic group people live in Bangladesh?

➤ Mymensingh

➤ Sylhet

➤ Rangamati

➤ Rangpur

➤ Cox's Bazar

Bangladesh Bank - Assistant Director - 2015

১. ভাষার মূল উপাদান হচ্ছে -

➤ বর্ণ

➤ শব্দ

➤ ধ্বনি

➤ বাক্য

২. 'আভরণ' শব্দের অর্থ কি ?

➤ অলংকার

➤ আচ্ছাদন

➤ রমণীয়

➤ অনবরত

৩. "মন্ত্রের সাধন কিংবা শরীর পতন" -এখানে 'কিংবা' অব্যয়টি কোন অব্যয় ?

➤ অনুকার অব্যয়

➤ **বিয়োজক অব্যয়**

➤ সমুচ্চয়ী অব্যয়

➤ সংযোজক অব্যয়

৪. 'চাকের কাঠ' বাগধারার অর্থ -

➤ সাহায্যকারী

➤ স্বাস্থ্যহীন লোক

➤ বাদক

➤ তোষামুদে

৫. 'বাবুটি' কোন ভাষার শব্দ ?

➤ **তুর্কি**

➤ আরবি

➤ ফারসি

➤ উর্দু

৬. কোন বানানটি শুন্ধ ?

➤ **মূর্ধন্য**

➤ মূর্ধণ

➤ মুর্ধন্য

➤ মুর্ধণ্য

৭. বাংলা ভাষা কোন শব্দ দুটি গ্রহন করেছে চীনা ভাষা হতে ?

➤ চাকু, চাকর

➤ খদর, হরতাল

➤ **চা, চিনি**

➤ রিঙ্গা, রেঙ্গোরাঁ

৮. ভাষার সর্বনাম ব্যবহারের উদ্দেশ্য কি ?

➤ বিশেষণের পরিবর্তে ব্যবহার করা

➤ **বিশেষ্যের পুনরাবৃত্তি দূর করা**

➤ বিশেষ্যের অভাব দূর করা

➤ ভাষা শব্দ সম্পদ বৃদ্ধি করা

৯. সম্বিধির প্রধান সুবিধা কি ?

➤ **উচ্চারণের সুবিধা**

➤ লেখার সুবিধা

➤ শোনার সুবিধা

➤ পড়ার সুবিধা

১০. "কর্মভোগ এড়ানো যায় না" - এখানে 'কর্ম' কোন অর্থ প্রকাশ করছে ?

➤ পেশা

➤ অনুষ্ঠান

➤ **কৃতকর্ম**

➤ কর্তব্য

১১. তুমি না বলেছিলে আগামীকাল আসবে ? এখানে 'না' -এর ব্যবহার কি অর্থে ?

➤ না-বাচক

➤ হ্যাঁ-বাচক

➤ **প্রশ্নবোধক**

➤ বিষয়সূচক

১২. 'পাবক' নিচের কোন শব্দের প্রতিশব্দ ?

- কিরণ
- দিবস
- **অগ্নি**
- বাতাস

১৩. 'মৃম্ময়ী' রবীন্দ্রনাথ ঠাকুরের কোন ছোট গল্লের নায়িকা ?

- **সমাপ্তি**
- দেনা-পাওনা
- পোষ্টমাস্টার
- মধ্যবর্তীনী

১৪. কোনটি অনুজ্ঞা ?

- তুমি গিয়েছিলে
- **তুমি যাও**
- তুমি যাচ্ছিলে
- তুমি যাচ্ছ

১৫. কোনটি সঠিক ?

- একাত্তরের দিনগুলো (উপন্যাস)
- বিদ্রোহী (কাব্যগ্রন্থ)
- **পথের দর্বী (উপন্যাস)**
- গোরা (নাট্যগ্রন্থ)

১৬. 'আত্মস্বাতী বাঙালী' কার রচিত গ্রন্থ ?

- অশোক মিত্র
- দেবীপ্রসাদ চট্টোপাধ্যায়
- অতুল সুর
- **নীরদচন্দ্র চৌধুরী**

১৭. 'চতুরঙ্গ' পত্রিকার সম্পাদক কে ছিলেন ?

- **হ্রমায়ুন কবির**
- ফজল শাহাবুদ্দীন
- আবুল হোসেন
- মোজাম্মেল হক

১৮. কোনটি রবীন্দ্রনাথের রচনা ?

- চতুর্ষিংদী
- চতুর্কোণ
- চতুর্দশী
- **চতুরঙ্গ**

১৯. 'আবোল-তাবোল' কার লেখা ?

- উপেন্দ্রকিশোর রায় চৌধুরী

- দক্ষিণারঞ্জন মিত্র মজুমদার
- **সুকুমার রায়**
- সত্যজিৎ রায়

২০. ফোর্ট উইলিয়াম কলেজের বাংলা বিভাগের প্রথম প্রধান ছিলেন -

- মি. উইলিয়াম
- **উইলিয়াম কেরি**
- রামরাম বসু
- জেসি মার্শম্যান

English

1. Craven

- greedy
- generous
- coward
- **brave**

2. Ulterior

- tipped
- sparkling
- **stated**
- rampaging

3. Euphonious

- **strident**
- significant
- lethargic
- distasteful

4. Laconic

- wicked
- **verbose**
- milky
- fragrance

5. The bureaucrat was ___ for his role in the scam .

- reinstated
- criticized
- **indicted**
- identified

6. He had to repent ___ what he had done .

- at
- **of**
- over
- for

7. Not to ___ of milk , even water was not there .

- talk
- speak
- **mention**
- discuss

8. He is usually calm, but today he appears rather ____ .

- disturbed
- **restless**
- unwell
- ill

9. Choose the correct spelling .

- Amature
- Amatuer
- Ameruer
- **Amateur**

10. Choose the correct spelling .

- Borucracy
- **Bureaucracy**
- Burocracy
- Bureaucrasy

11. Choose the correct spelling .

- License
- Lisence
- **License**
- Licencde

12. Choose the correct spelling .

- Diaroea
- Diarhorea
- Diarroea
- **Diarrhoea**

13. A speech made without preparation -

- Prepared

➤ Debate

➤ **Cynic**

➤ Elocution

14. A sneering person who always finds faults -

➤ **Cynic**

➤ Cupid

➤ Kleptomaniac

➤ Crone

15. An instrument for measuring the force of the wind -

➤ Manometer

➤ Micrometer

➤ Hydrometer

➤ **Anemometer**

16. A short journey for pleasure -

➤ **Jaunt**

➤ Voyage

➤ Travelling

➤ Walking

17. Spot the odd man out .

➤ **Electricity**

➤ Coal

➤ Wood

➤ Gas

18. Select an appropriate term that completes the series L p F, N q G, P r H, R s I, ____

➤ m P m

➤ **T t J**

➤ t T j

➤ T T J

19. If 10 person shake their hands with each other , then total number of handshakes are --

➤ 100

➤ 20

➤ 50

➤ **45**

20. It is impossible for the earth to -

➤ move round the sun

➤ **have lights on it**

➤ be the most important planet of the solar system

- be the nearest planet of the sun

21. If PLAY is coded as 8123 and RHYME is coded as 49367 , how is MALE coded ?

- 6395
- 6198
- **6217**
- 6285

22. Which one word cannot be formed from the letters of the word 'CHOREOGRAPHY' ?

- GEOGRAPHY
- GRAPH
- OGRE
- **PHOTOGRAPHY**

Math

1. If 20 percent of 80 percent of a number is 12.8, then what is the number ?

- **80**
- 50
- 40
- 9

2. If you divide 30 by half and add 10 with the resulting figure , then what is the final result ?

- 25
- **70**
- 45
- 55

3. Sum of 10 integer is 462. The average of first 4 number is 52 and the average of last 5 number is 38.

What is the fifth number ?

- 64
- 60
- **50**
- 62

4. When the diameter of a circle is trebled , the area is multiplied by how many times ?

- 3
- 6
- **9**
- 12

5. Which of the following is the 250% of 1 ?

- 0.25
- 2.5
- 25
- 0.025

8. What is the difference of largest and smallest prime number between 60 and 80 ?

- 8
- 12
- 18
- 140

9. A student loses 1 mark for every wrong answer and scores 2 marks for every correct answer . If he answers all the 60 questions in an exam and scores 39 marks , how many of them were correct ?

- 33
- 31
- 27
- 37

10. Twenty-seven persons attended a party . Which one of the following statements can never be true ?

- There is a person in the party who is acquainted with all the twenty-six others .
- **Each person in the party has a different number of acquaintances**
- There is a person in the party who has an odd number of acquaintances
- In the party, there is no set of three mutual acquaintances .

11. Unless new reserves are found , the world's supply of coal is being depleted in such a way that with demand continuing to grow at present rate, reserves will be exhausted by the year 2050. What is the best conclusion that can be drawn from the above paragraph ?

- **It is the time to search for alternative**
- New reserves of coal would be found before 2050
- Demand for coal is growing fast
- World's coal reserve is declining

12. Nobody believes a man who lacks confidence in his ability . None should sit idle and shirk his duty on the plea that it is beyond his power to do without the help of others . Such a man always falls behind . He meets failures and suffers in the long run . So that everyone should possess the virtue of -

1. punctuality
2. dignity
3. boldness
4. **self-reliance**

13. Differences in the way men and women process language are of special interest to brain researchers. It is known that 'aphasia' , a kind of speech disorder , is more common in men than in women when the left side of the brain is damaged in an accident or after a stroke. However , women are more likely than

men to suffer 'aphasia' when the front part of the brain is damaged . The idea implied in the above passage is -

- Brain damaged can be caused by an accident
- **Brains of men and women are organized differently in the way they process speech**
- Both sides of the brain are responsible for speech organization
- Brain researchers are locked in argument over the process of language development

Computer

1. The process of loading the Operating System in the memory is known as

- Debugging
- **Booting**
- Loading
- Trouble Shooting

2. To display one line in multiple cell you will have to select

- Merge cells check box
- **Wrap text check box**
- Shrink to fit check box
- None of these

3. To find the average value of A1, A2, A3, which of the following is not a correct formula ?

- = Sum (A1 : A3)/3
- = (A1 : A3)/3
- = (A1-A2+A3)/3
- **= Average (A1:A3)**

4. Suppose cells A5 and B5 contain the values 35,000 and 100 respectively . In cell C5, if you apply the formula = IF (A5 <> 20000, B5 * 10%,B5 * 20%), what will be the result in C5 ?

- 20
- **7,000**
- 3,500
- 10

5. What will be the result of the formula = Max (Average (B1, B2), Product (B3 : B4)) where the value of B1 = 26, B2 =30, B3 =12 and B4 =2

- **28**
- 24
- 26
- 672

↳ To find a document file that starts with "N" ,which one of the following is the correct search option ?

- *.*
- *.doc
- N.doc
- **N*.doc**

↳ Which of the following symptom does not indicate that your computer system is affected by Virus ?

- Takes much time to load a program
- **Disk access time is faster**
- Gives abnormal error message
- Inadequacy in system memory

↳ You are the student of Dhaka University . You have computer and Internet connection . From PC, you browse the e-commerce web sites www.amazon.com and submit an order through online using your international credit card to purchase 50 books . This type of transaction is known as -

- B2B
- C2B
- B2G
- **B2C**

↳ Which of the following technology is used by Bluetooth operations ?

- Magnetic
- Optical
- **Radio Frequency**
- laser

GK

↳ How many brigades were formed in the liberation war of Bangladesh ?

- **3**
- 7
- 9
- 11

↳ Which of the following sweeteners does not provide any energy to the body ?

- Fructose
- Glucose
- Maltose
- **Saccharin**

↳ Which of the following is the currency of Argentina ?

- Dollar

➤ Lira

➤ **Peso**

➤ Rand

8. The planet having no moon is ____.

➤ Mercury

➤ Pluto

➤ **Venus**

➤ Neptune

9. Radcliffe line is a boundary line between -

➤ India and Bangladesh

➤ India and China

➤ **India and Pakistan**

➤ India and Nepal

10. The 'Roof of the World' is ____.

➤ The Alps

➤ The Andes

➤ The Apennines

➤ **The Pamir Plateau**

11. Who scored the highest runs in the recently held Bangladesh-South Africa one day series ?

➤ Mustafizur Rahman

➤ **Soumya Sarkar**

➤ Shakib Al Hasan

➤ Tamim Iqbal

12. Which country won the Copa America-2015 football tournament trophy ?

➤ Brazil

➤ Argentina

➤ **Chile**

➤ Mexico

13. Who has directed the film 'polashi' Theke Dhanmondi ?

➤ Tarek Masud

➤ Chashi Nazrul Islam

➤ **Abdul Gaffar Choudhury**

➤ Mostofa Sarwar Farooki

14. The Headquarter of UNESCO is at-

➤ Rome

➤ Geneva

➤ **Paris**

➤ New York

↳ Which authority in Bangladesh issues license to Credit Rating Agencies ?

➤ BSEC

➤ MRA

➤ BB

➤ IDRA

↳ Which of the following countries is suffering from severe debt crisis ?

➤ Ireland

➤ Greece

➤ Spain

➤ USA

↳ Which international organization recently declared Bangladesh as lower middle income country ?

➤ IMF

➤ OECD

➤ WB

➤ ADB

↳ What is the meaning of 'SAPTA' ?

➤ SAARC Preferential Trading Arrangement

➤ SAARC Preferential Tariff Arrangement

➤ South Asian Preferential Trading Arrangement

➤ South Asian Preferential Tariff Arrangement

↳ Who is the founder of the social networking site "Facebook"

➤ Bill Gates

➤ Tim Barnes Lee

➤ Andy Grove

➤ Mark Zuckerberg

↳ The city 'Frankfurt' is renowned for -

➤ Agricultural Product

➤ Book Fare

➤ Medicine Industry

➤ Ice Hockey

↳ Who was the finance minister at the time of liberation war of Bangladesh in 1971?

➤ A.H.M. Kamaruzzaman

➤ Captain M. Mansur Ali

➤ Syed Nazrul Islam

➤ Dr. Kamal Hossain

↳ When did India recognize the independence of Bangladesh ?

➤ 6 December , 1971

➤ 26 March , 1971

➤ 16 December , 1971

➤ 14 December , 1971

১৯. The first tribal cultural academy of Bangladesh is established in -

➤ Rangamati

➤ **MolloveBazar**

➤ Cox's Bazar

➤ Rangpur

২০. The time limit for achieving Millennium Development Goal (MDG) is -

➤ 2010

➤ **2015**

➤ 2020

➤ 2021

Bangladesh Bank - Officer - 2015

১. অভিনবেশ শব্দের অর্থ কি ?

➤ নিষ্পূর্হ

➤ **মনোযোগ**

➤ বিশেষভাবে

➤ অভিজ্ঞতা

২. নিম্নে কোন বাক্যটি সঠিক ?

➤ আমার কথাই প্রমাণ হলো।

➤ আমার কথাই প্রমাণ হলো।

➤ আমার কথাই প্রমানীত হলো।

➤ **আমার কথাই প্রমাণিত হলো।**

৩. বাংলা ভাষার সাধুরীতির বৈশিষ্ট্য কোনটি ?

➤ বিশেষ ও সর্বনাম এক বিশেষ গঠন পদ্ধতি মেনে চলে

➤ **সর্বনাম ও ক্রিয়াপদ এক বিশেষ গঠন পদ্ধতি মেনে চলে**

➤ বিশেষ ও বিশেষণ এক বিশেষ গঠন পদ্ধতি মেনে চলে

➤ সর্বনাম ও বিশেষণ এক বিশেষ গঠন পদ্ধতি মেনে চলে

৪. 'শশী' ও 'কুমুদ' বাংলা সাহিত্যের কোন বিখ্যাত উপন্যাসের দুটি চরিত্র ?

➤ **পুতুল নাচের ইতিকথা**

- গোরা
- উত্তম পুরুষ
- কবি

৫. কোন ভাষার সাহিত্যের গান্ধীর্ঘ ও আভিজাত্য প্রকাশ পায় ?

- চলতি ভাষায়
- কথ্য ভাষায়
- আংগুলিক ভাষায়
- **সাধু ভাষায়**

৬. অভিধানে কোন শব্দ আগে বসবে ?

- **চাঁটি**
- চাঁদা
- চানা
- চালা

৭. 'আনারস' এবং 'চাবি' শব্দ দুটি বাংলা ভাষায় কোন ভাষা হতে গৃহীত হয়েছে ?

- দেশী
- আরবী
- **পর্তুগীজ**
- ওলন্দাজ

৮. কোনটি শুন্দি বানান ?

- পির্ণিমেষ
- নির্ণিমেষ
- পির্ণিমেষ
- **নির্ণিমেষ**

৯. 'অমিত্রাক্ষর' ছন্দের বৈশিষ্ট্য হলো -

- চরণের প্রথমে মিল থাকে
- বিশ মাত্রার পর্ব থাকে
- **অন্তিমিল থাকে না**
- অন্তিমিল থাকে

১০. বাংলা ভাষার যতি চিহ্নের প্রচলন করেন কে ?

- **ইশ্বচন্দ্র বিদ্যাসাগর**
- বঙ্কিমচন্দ্র চট্টোপাধ্যায়
- রবীন্দ্রনাথ ঠাকুর
- প্যারীচাঁদ মিত্র

১১. 'সংশয়' এর বিপরীতার্থক শব্দ কোনটি ?

- **প্রত্যয়**
- বিষ্ণয়
- নির্ভয়

➤ দ্বিধা

১২. 'সন্ধ্যায় সূর্য অন্ত যায়' এটি কোন বর্তমান কালের ?

- সাধারণ বর্তমান
- **নিত্যবৃত্ত বর্তমান**
- ঘটমান বর্তমান
- পুরাধাটিত বর্তমান

১৩. 'রাত্রি'র সমার্থক শব্দ নয় -

- **বারিদ**
- রজনী
- যামিনী
- শ্বরী

১৪. 'ব্রজবুলি' বলতে কি বোঝায় ?

- মৈথিলি ভাষায় একটি উপভাষা
- বাংলা ও হিন্দির ঘোগফল
- **একরকম কৃত্রিম কবিভাষা**
- ব্রজধামে কথিত ভাষা

১৫. ইহলোকে যা সামান্য নয় -

- **অলোকসামান্য**
- অনন্যসাধারণ
- অনন্যসাদারন
- আলোকসামান্য

১৬. 'গাহি সাম্যের গান, ধরণীর হাতে দিল যারা আনি ফসলের ফরমান'। পঙ্কজিটি কাজী নজরুল ইসলাম রচিত কোন কবিতার অংশ ?

- নারী
- **জীবন-বন্দনা**
- সাম্যবাদী
- মানুষ

১৭. প্রত্যয়গত ভাবে শুন্দি কোনটি ?

- উৎকর্ষতা
- উৎকৃষ্টতা
- **উৎকৃষ্ট**
- উৎকর্ষ

১৮. 'পুণ্যে মতি হোক' বাক্যে পুণ্য কোন পদব্রহণে ব্যবহৃত হয়ে ছে ?

- বিশেষণের বিশেষণ
- **বিশেষ্য**
- বিশেষণ
- সর্বনাম

১৯. চাঁদ কোন শ্রেণীর শব্দ ?

- তত্ত্ব
- অর্ধতৎসম
- তৎসম
- দেশী

২০. 'তার বয়স বেড়েছে কিন্তু বুদ্ধি বাড়েনি' এটি কোন ধরনের বাক্য ?

- সরল বাক্য
- **ঘোষিক বাক্য**
- মিশ্র বাক্য
- সাধারণ বাক্য

English

1. What is the main purpose of the passage ?

- To explain the importance of invisible aspects of culture
- To describe cultural diversity
- To point out that much of culture is learned consciously
- To explain why cross-cultural conflict occurs

2. The author implies that institutions such as schools and workplaces

- teach their employees about cultural differences
- share a common culture
- reinforce invisible culture differences
- are aware of culture differences

3. The word "exotic" could best be replaced by -

- formal
- improper
- **foreign**
- outdoor

4. The word "deliberately" is closest in meaning to -

- **intentionally**
- slowly
- accurately
- randomly

5. One who collects postage stamps -

- Stamp Collector
- **Philatelist**

- Lexicographer
- Vendor

6. One who hates mankind -

- Lover
- Philanthropist
- **Misanthrope**
- Hatter

7. A person claiming to be superior in culture and intellect to others -

- Highbrow
- Aristocrat
- Elite
- **Intellectual**

8. The plants and vegetation of a region -

- Fauna
- Climate
- Landscape
- **Flora**

9. EXPAND : VOLUME

- ascend : flight
- **proliferate** : number
- bend : flexibility
- deflect : heading

10. COWARD : BRAVE

- **philanthropist** : selfish
- martyr : impatient
- traitor : careful
- hero : cynical

11. SYMPHONY : COMPOSER

- rain : flood
- light : switch
- **novel** : author
- song : music

12. UNEQUIVOCAL : CLEAR

- gloss : agile
- genuine : invisible
- excuse : barrier
- **frisky** : playful

Find the opposite word (13-16)

13. Parallelism

- Divergence
- Obliquity
- Disparity
- Contrast

14. Debonair

- Good-looking
- Balmy
- Awkward
- Windy

15. Venerate

- Severe
- Respect
- Condemn
- Inculcate

16. Eulogistic

- Brief
- Pretty
- Stern
- Critical

Math+Mental ability

1. The average of two numbers is 62. If 2 is added to the smaller number, the ratio between the numbers becomes 1: 2. The smaller number is -

- 84
- 60
- 40
- 30

2. At present , father's age is 4 times more than that of his son . 6 years ago father's age was 10 times more than that of his son. What is their present age ?

- 56 and 14 years
- 40 and 10 years
- 32 and 8 years

➤ 36 and 9 years

⓪. The present ratio of students to teachers at a certain school is 30 to 1 . If the students enrollment were to increase by 50 students and the number of teachers were to increase by 5, the ratio of students to teachers would then be 25 to 1. What is the present number of teachers ?

- 15
- 12
- 10
- 8

8. If the price of an item is increased by 10% and then decreased by 10% , the net effect on the price of the item is -

- No change
- an increase of 7%
- a decrease of 1%
- an increase of 9%

⑧. Which would be third in alphabetical order ?

- Mausoleum
- Mauve
- Maundy
- Mane

⑨. Five persons are travelling in a train - A, B, C, D and E. A is the mother of C who brother of A and B is the husband of A. How is B related to E ?

- Father in law
- Father
- Uncle
- Brother

⑩. If you rearrange the letters "LNGEDNA", you have the name of a (n) :

- ocean
- animal
- city
- country

⑪. 'Retard' is to 'Impel' as 'Obfuscate' is to -

- Hallucinate
- Confuse
- Irradiate
- Dampen

⑫. A train 120 meter long is traveling at a speed of 60 km/h. The time in which it will pass a passersby , walking at 6 km/h in the same direction is -

- 3 sec
- 9 sec
- 8 sec
- **6 sec**

Computer

3. Which of the following programming languages is not a high level language ?

- FORTRAN
- C ++
- **Oracle**
- Java

4. Bluetooth operations use

- Magnetic technology
- **Radio technology**
- Optical technology
- Laser technology

5. A CD-ROM drive is labeled with 52X. Here 52X is a measurement of -

- Time required reading
- Revolution per minute
- Capacity of the CD
- **Data transfer rate**

6. Maximum number of rows in an excel sheet are

- **65536**
- 65535
- 256
- 65532

7. When you start your computer then which component works first ?

- **BIOS**
- Hard Disk
- Processor
- RAM

8. POST means

- Proper Operating Service Terminal
- Post Office Sale Terminal
- Point of sale Terminal

- None of the Above

q. Which one of the following is Utility Software ?

- McAfee
- MS-Word
- Windows Xp
- Oracle

br. In Bangladesh , BTRC provides bandwidth of internet services through submarine cable network .

Which of the following submarine cable networks is connected with Bangladesh ?

- Southern Cross Cable
- SEA-ME-WE
- C2C North Ring
- FLAG

bs. Suppose the value of cell E5 in MS-Excel sheet is 3500. If we apply the formula = IF (E5 < 20000,E5 * 10%, E5 * 20%) , what will be the result ?

- 700
- 350
- 3500
- 500

GK

5. The foreign exchange reserve of Bangladesh Bank at this moment is at record level. What is that level ?

- \$23+ billion
- \$22+ billion
- \$21+ billion
- \$20+ billion

6. Who is the regulator for Micro-finance institutions in Bangladesh ?

- Bangladesh Bank
- PKSF
- MRA
- CDF

7. Queen Sofia belongs to -

- Britain
- Egypt
- Spain

- France

8. Which of the following country is the highest emitter of CO2 ?

- USA
- UK
- **China**
- Germany

9. The book "Glimpses of World History" was written by -

- Rabindranath Tagore
- **Jawaharlal Nehru**
- Carlyle
- Karl Marx

10. Which one of the following is not a central bank ?

- State Bank of Pakistan
- Bank of England
- Central Bank of Sri Lanka
- **Central Bank of India**

11. Which sport is associated with the Davis Cup ?

- Football
- Horse Racing
- Cricket
- **Tennis**

12. When did Bangladesh achieve membership of United Nations ?

- 1975
- **1974**
- 1973
- 1972

13. Which of the following companies has issued largest ever IPO in capital market ?

- **Ali Baba**
- Google
- Microsoft
- Black Berry

14. Who was the first Bangladeshi presiding over General Assembly session of the United Nations ?

- **Humayun Rashid Chowdhury**
- Saifur Rahman
- A.M.A. Muhith
- Dr. Kamal Hossain

15. In terms of GDP, which one of the following is the largest economy ?

- USA
- UK
- Australia
- **China**

১২. Where does Rakhain tribe mainly live ?

- Rangamati
- Bandarban
- Rajshahi
- **Patuakhali**

১৩. Which one of the following is 'legal tender money' ?

- Devit Card
- Cheque
- Credit Card
- **Coins**

১৪. Which is the smallest district in Rajshahi Division ?

- Chapainowabgonj
- Naogaon
- **Joypurhat**
- Natore

১৫. "Ebola" has not spread out in epidemic form in which of the following countries ?

- **Nigeria**
- Sierra Leon
- Guinea
- Liberia

১৬. In regard to noble prize, which one of the following is not true ?

- Malala Yusufzai is the sixteenth woman noble prize winner
- Malala Yusufzai is a noble prize winner in peace
- Malala Yusufzai is the youngest noble prize winner
- **Malala Yusufzai is a noble prize winner in education**

১৭. Which of the following is an affiliate of the International Bank of Reconstruction and Development ?

- IMF
- **IDA**
- UNDP
- UNICEF

১৮. Which of the following is grown from stem cuttings ?

- **Sugarcane**
- Maize

- Turmeric
- Banana

১৯. Which of the following is not a contagious disease ?

- Mumps
- Small Pox
- **Typhoid**
- Tuberculosis

২০. Who was the Finance Minister during our liberation war in 1971 ?

- H. M. Kamruzzaman
- Dr.Kamal Hossain
- Syed Nazrul Islam
- Captain M. Mansur Ali



Job Information For All Students (BCS & Bank)

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WRITTEN TEST FOR MANAGEMENT TRAINEE OFFICER (MTO)- 2015

FULL MARKS: 100; TIME: 90 MINUTES

Part- I (MCQ); Marks: 60

Section A: English Proficiency; Marks: 15

Questions (01 to 05): Read the following passage carefully and answer the questions based on it. $1 \times 5 = 5$

Comfort is now one of the causes of its own spread. It has now become a physical habit, a fashion, an ideal to be pursued for its own sake. The more comfort is brought into the world, the more it is likely to be valued. To those who have known comfort, discomfort is a real torture. The fashion which now decreases the worship of comfort is quite as imperious as any other fashion. Moreover enormous material interests are bound up with the supply of means of comfort. The manufacturers of furniture of heating apparatus, of plumbing fixtures cannot afford to let the love of comfort die. In modern advertisement they have found a means for compelling it to live and grow. A man of means today, who builds a house, is in general concerned primarily with the comfort of his future residence, he will regard his house as perfect. His counterpart in an earlier age would have been primarily concerned with the impressiveness and magnificence of his dwelling with beauty, in a word, rather than comfort. The money our contemporary would spend on decoration and air-conditioning would have been spent on marble stair cases, frescoes, pictures and statues. I am inclined to think that our present passion for comfort is a little exaggerated. Though I personally enjoy comfort, I have lived most happily in house devoid of everything that Anglo-Saxon deem indispensable. However, comfort for me has justification; it facilitates mental life. Discomfort handicaps thought; it is difficult to use the mind when the body is cold and aching.

01. How do people manage to keep the love of comfort alive?

- a) By pumping in more comfort goods in the market
- b) By sacrificing high profit on comfort goods
- c) By targeting youths in the sales campaign
- d) By appealing to the emotionality of people

Answer: Passage এর ৫ম ও ৬ষ্ঠ বাক্যটি পড়ুন উত্তর পেরে দাবেন। Moreover, enormous material interests are bound up with the supply of means of comfort. The manufacturers of furniture of heating apparatus, of plumbing fixtures cannot afford to let the love of comfort die. তাই উত্তর হবে অপশন a). ans. A

02. Why does the author value comfort?

- a) It helps to project one's image
- b) It help to project your values
- c) It encourages a blend of materialistic and spiritual thinking
- d) It facilitates mental life

Answer: শেষ বাক্যের আগের বাক্যটিতে উত্তর আছে। Though I personally enjoy comfort, I have lived most happily in house devoid of everything that Anglo-Saxon deem indispensable. ans. D

03. What was characteristic of affluent man of an earlier age?

- a) He used to put higher premium on comfort
- b) He was relying much on advertisements
- c) He believed more in simple and cheaper things
- d) His emphasis was on beauty

Answer: Passage এর ১০ নম্বর লাইনের His counterpart in an earlier age would have been primarily concerned with the impressiveness and magnificence of his dwelling with beauty, in a word, rather than comfort-এ উত্তর রয়েছে। ans. D

04. What changes according to the author has taken place in the attitude towards comfort?

- a) It is taken for granted in the modern way of living
- b) It has become now an ideal to be pursued for its own sake
- c) It is now believed that discomfort handicaps thought
- d) It is thought that comfort helps body and mind to function effectively

Answer: অপশন B) Passage এর জন্মতেই যা প্রথম লাইন শেষ হওয়ার পরেই বলা আছে যে, It has now become an ideal to be pursued for its own.

ans. B

05. Why would manufacturers of various devices not permit comfort to die?

- a) They want to manufacture more and more comfort goods
- b) Manufacturers are mainly interested in creating new things
- c) Their prosperity is closely linked with the people's desire for comfort
- d) Manufacturer's emphasis is on producing beautiful things.

Answer: এই প্রশ্নটির উত্তর করার জন্য একটু কষ্ট করে কয়েকটি লাইন পড়তে হবে। Passage-এর মাঝামাঝি The manufacturers of furniture..... থেকে rather than comfort. পর্যন্ত ; উত্তরটি আপনার কাছে clear হবে যাবে।

ans. C

Questions (06 to 10) : Each sentence has four underlined word(s). The four underlined parts of the sentence are marked A, B, C, and D. Identify the one underlined word that must be changed in order for the sentence to be correct. $1 \times 5 = 5$

06. Transplanting organs such hearts and kidneys has proved easier than than transplanting muscles.

A B C D

Answer: উপরের বাক্যটির answer option (B) এর such এর পরিবর্তে such as ব্যবহার করতে হবে। such as মানে যেমন দ্বয়েকপ, যা এখানে সম্পূর্ণরূপে প্রযোজ্য। তাহলে option (B) এর such এর পরিবর্তে such as বসানোর মাধ্যমে তুল সংশোধন করতে হবে।

ans. B

07. Bicyclists Joy riding across country and through small towns.

A B C D

Answer: বাক্যটির answer option (B) এর Joy শব্দটি একটি noun. যা এইসবোগ্য নয়। যেহেতু Bicyclists একটি plural noun. তাই এর পরে plural verb বসবে। noun word নয়। joy এর verb হচ্ছে enjoy আর এটিই বসাতে হবে। তাহলে option (B) তে তুল আছে।

ans. B

08. The cine camera has become obsolete since Its Invention of video recording technology.

A B C D

Answer: বাক্যটির চারটি option এর মধ্যে option (C) ছাড়া অন্যগুলো সঠিক আছে। তখন্মাত্র option (C) এর its হবে না। এর পরিবর্তে The বসবে। its বসালে বাক্যের অর্থের অসঙ্গতি প্রকাশ পায়। কাজেই সঠিক (C).

ans. C

09. Drying food by means of solar energy Is ancient process applied wherever food and climatic

A B C D

conditions make it possible.

Answer: এই বাক্যটিতে যে চারটি Answer option আছে তার মধ্যে option (C) কে বাদ দিলে অন্য চারটি সম্পূর্ণ সঠিক আছে। option (C) এর ancient শব্দটির পূর্বে indefinite article অর্থাৎ 'an' বসবে।

ans. C

10. Fiber Is an important element to nutrition, and It aids in protecting the digestive tract as well.

A B C D

Answer: এই বাক্যটিতে যে চারটি Answer option আছে তার মধ্যে option (B) ছাড়া অন্যগুলো সম্পূর্ণ সঠিক আছে। Nutrition- (পুষ্টির) এর একটি ওপরতৃপূর্ণ উপাদান বোকানোর জন্য অর্ধাং �Nutrition এর সন্তুর উত্তের করতে option (B) এর to এর হলে o- বসবে।

ans. E

Questions (11 to 15) : In each of the following questions, a related pairs of words is followed by four pairs of words. Select the pair that best expresses a relationship similar to the one expressed in the question pair.

1 × 5 = 5

11. Doubt : Faith

- a) Atheist: Religion
- b) Skeptic: Pious
- c) Iconoclast: Idol
- d) Apostate: State

Answer: Question এর কঠিন শব্দগুলোর অর্থ : Doubt -সন্দেহ, Faith -বিশ্বাস, Atheist -নাত্তিক, Religion -ধর্ম, Skeptic -সন্দেহবাদী, Pious -ধর্মনিষ্ঠ, Iconoclast -অবস্কারী, Idol -আইডল/মূর্তি, Apostate -মুরতাদ, State -রাজ্য।

ans. A

12. Sail : Ship

- a) Propeller : Aero plane
- b) Radar : Satellite
- c) Hydrogen : Balloon
- d) Accelerator : Car

Answer: Question এর কঠিন শব্দগুলোর অর্থ : Sail -নৌকার পাল, Ship -জাহাজ, Propeller -জাহাজ বা বিমানের একটি যন্ত্ৰ যা জাহাজ বা বিমানকে চুরাতে ব্যবহৃত হয়, Aero plane -বিমান, Radar -রাতন, Satellite -স্যাটেলাইট, Hydrogen -হাইড্রোজেন, Balloon -বেলুন, Accelerator -বেগবৰ্ধক/চুরাক, Car -গাড়ী।

Sail একটি অংশ হলো Sail. আর Aero plane একটি অংশ হলো Propeller.

ans. A

13. Food : Gourmet

- a) Book: Critic
- b) Art: Connoisseur
- c) Sports: Fan
- d) Craft: Skill

Answer: Question এর কঠিন শব্দগুলোর অর্থ : Food -খাদ্য, Gourmet -গোচোজন বিশাসী, Book -বই, Critic -সমালোচক, Art -শিল্প, Connoisseur -রসপতিত, Sports -খেলা, Fan -তত্ত্ব, Craft -নৈপুণ্য, Skill -দক্ষতা।

Food এর প্রতি আসক্ত ব্যক্তি হলো Gourmet. আর Sports এর প্রতি অতিরিক্ত আসক্ত ব্যক্তি হলো Fan.

ans. C

14. Just : Arbitrary

- a) Order: Chaos
- b) Bare: Clothed
- c) Hope: Surprise
- d) Proper: Improper

Answer: Question এর কঠিন শব্দগুলোর অর্থ : Just -অনু/কেবলমাত্র, Arbitrary -নির্বিচারে, Order -আদেশ, Chaos -বিশূর্ঘলা, Bare -নগ্ন/খালি, Clothed -পরিহিত/সজ্জিত, Hope -আশা, Surprise -আশ্চর্য, Proper -যথাযথ, Improper -অযথাযথ।

Arbitrary তে Just থাকে না। আর Chaos এ Order থাকে ন।

ans. A

15. Divide : Unite

- a) Split: Apart
- b) Marriage: Divorce
- c) Fission: Fusion
- d) Chasm: Gap

Answer: Question এর কঠিন শব্দগুলোর অর্থ : Divide -ভাগ, Unite -ঐক্যবৃক্ষ, Split -বিভক্ত, Apart -ছাড়া ও, Marriage -বিবাহ, Divorce -বিচ্ছেদ, Fission -বিদ্রোহ, Fusion -লয়/দ্রোক্ষণ, Chasm -ফাটল, Gap -শূল্যস্থান।

Divide এর বিপরীত শব্দ হলো Unite. আর Fission এর বিপরীত শব্দ হলো Fusion.

ans. C

Section B:**Mathematics****Questions (16 to 20) :** Choose the correct answer.

1.5 × 10 = 15

6. Laboni bought a 1-year, Tk. 10,000 certificate of deposit that paid interest at an annual rate of 8 percent compounded semiannually. What was the total amount of interest paid on this certificate at maturity?

- a) Tk. 10,464
- b) Tk. 864
- c) Tk. 816
- d) Tk. 800

Answer: বছরে ২বার অর্থ প্রতিবার সুদের হার = $\frac{8}{2} = 4\%$

$$\therefore \text{1st time} = 10000 \times 4\% = 400$$

$$\text{2nd time} = 10400 \times 4\% = 416$$

$$\therefore \text{Total amount of interest paid on this certificate at maturity is} = (400 + 416) = 816$$

ans. C

17. At the rate of m meters per s seconds, how many meters does a cyclist travel in x minutes?

a) $\frac{mx}{s}$

b) $\frac{60m}{sx}$

c) $\frac{60ms}{x}$

d) $\frac{60mx}{s}$

Answer:

$$x \text{ মিনিট} = 60x \text{ সেকেন্ড}$$

S সেকেন্ডে যায় m মিটার

$$\therefore 60x \text{ সেকেন্ডে যায় } \frac{60x \times m}{s} = \frac{60mx}{s} \text{ মিটার}$$

ans. D

18. The present ratio of students to teachers at a certain school is 30 to 1. If the student enrollment were to increase by 50 students and number of teachers were to increase by 5, the ratio of students to teachers would then be 25 to 1. What is the present number of teachers?

a) 15

b) 10

c) 12

d) 8

Answer: এখনোথেকে, $\frac{30x+50}{x+5} = \frac{25}{1}$

$$\Rightarrow 30x + 50 = 25x + 125$$

$$\Rightarrow 30x - 25x = 125 - 50$$

$$\Rightarrow 5x = 75 \Rightarrow$$

$$x = \frac{75}{5} \quad \therefore x = 15$$

ans. A

19. Which of the following describes all values of x for which $1 - x^2 \geq 0$?

a) $x \geq 1$

b) $x \leq -1$

c) $0 \leq x \leq 1$

d) $-1 \leq x \leq 1$

Answer:

$$x \cdot \text{ধনাত্মক হলে } 1 - x^2 \geq 0 \Rightarrow 1 \geq x^2 \Rightarrow 1 \geq x \Rightarrow x \leq 1 \quad \text{---(i)}$$

$$x \cdot \text{ক্ষমাত্মক হলে } -|x| \leq 1 \Rightarrow x \geq -1 \quad \text{---(ii)}$$

i & ii হতে পাই

$$-1 \leq x \leq 1$$

$$\therefore x \text{ - এর মান হবে } (-1) \text{ এর সমান অথবা বড় অথবা } (+1) \text{ এর সমান অথবা বড়।}$$

ans. D

20. The cost, in taka, of manufacturing x microwaves is $6000 + 300x$ taka. The amount received when selling these x microwaves is $700x$ taka. What is the least number of microwaves that must be manufactured and sold so that the net profit is Tk. 2400?

a) 15

b) 21

c) 19

d) 17

Answer: $6000 + 300x + 2400 = 700x$

$$\Rightarrow 300x - 700x = -8400$$

$$\Rightarrow 400x = 8400$$

$$\Rightarrow x = \frac{8400}{400} \quad \therefore x = 21$$

ans. B

21. The larger of two numbers exceeds twice the smaller number by 9. The sum of twice the large and 5 times the smaller number is 74. If a is the smaller number, which equation below determines the correct value of a ?

- a) $5(2a + 9) + 2a = 74$
 b) $5(2a - 9) + 2a = 74$
 c) $(4a + 9) + 5a = 74$
 d) $2(2a + 9) + 5a = 74$

Answer: বড় সংখ্যা = $2a + 9$

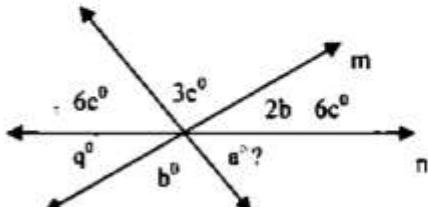
$$2(2a + 9) + 5a = 74$$

ans. D

22. In the figure, what is the value of a ?

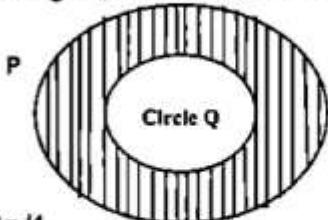
- a) 30
 b) 45
 c) 72
 d) 60

Answer: $3C^\circ = b \quad \therefore 15 C^\circ = 180^\circ$
 $\Rightarrow 2 \times 3C^\circ = 2b \quad C^\circ = \frac{180}{15}$
 $\Rightarrow 6C^\circ = 2b \quad = 12^\circ$
 $\Rightarrow 6C^\circ = a^\circ \quad \therefore 6C^\circ = 12 \times 6$
 $\quad \quad \quad \quad \quad \quad = 72 = a^\circ$



ans. C

23. In the figure, circle P has diameter 2 and Q has diameter 1. What is the area of the shaded region?



- a) $3\pi/4$
 b) 3π
 c) $7\pi/2$
 d) 6π

Answer:

$$P \text{ এর আয়তন} = \pi (1)^2 = \pi$$

$$Q \text{ এর আয়তন} = \pi (\frac{1}{2})^2 = \frac{\pi}{4}$$

$$\therefore \text{শ্যাডো রেজিয়ন এর আয়তন} = \pi - \frac{\pi}{4} = \frac{4\pi - \pi}{4} = \frac{3\pi}{4}$$

ans. A

4. Find the probability of selecting a prime number from a set of numbers 1 to 15 (both inclusive).

- a) 1/15
 b) 3/5
 c) 2/5
 d) 7/15

Answer: 2, 3, 5, 7, 11, 13 = 6 টি মৌলিক সংখ্যা

$$\therefore \frac{6}{15} = \frac{2}{5}$$

ans. C

5. If 4% of $(P + Q)$ is 8 and P is a positive integer, what is the greatest possible value of Q ?

- a) 196%
 b) 197
 c) 198
 d) 199

$$\text{Answer: } \frac{P + Q}{25} = 8$$

$$P + Q = 200$$

Q এর মান ত্বরান্ব সর্বোচ্চ হবে যখন P সর্বনিম্ন হবে।

$$\therefore P = 1;$$

$$\therefore Q = 199$$

ans. D

Section C :**Analytical Ability****Questions (26 to 30) : Answer the questions on the basis of the information given below.****15**

H, J, K, L, M, N and O are the only legislators eligible to vote on Bills 1, 2, and 3, each of which will be passed if at least four legislators vote in favor of it. Each legislator must vote on all three bills; no abstentions are possible. The following is known:

- * H must vote against all three bills; each of the other legislators must vote in favor of at least one bill and against at least one bill.
- * J must vote against Bill 1.
- * K must vote against Bills 2 and 3.
- * L must vote the same way that K does on all three bills.
- * N must vote the same way that O does on all three bills.

H, J, K, L, M, N, O সাতজন legislator যারা তিনটি Bills (1, 2, 3) এ জোট প্রদানের যোগ্য। যদি কমপক্ষে চারজন legislator কোন Bill এর পক্ষে ভোট দেয় তবে তা Pass হবে। অতোক legislator কেই Vote প্রদান করতে হবে কোন অনুপস্থিতি সহ্য নয়।

শর্তবলী :

1. H অবশ্যই Bill 1 এর বিপক্ষে ভোট দিবে : অন্য সকল legislator-সের মধ্যে প্রত্যেকে কমপক্ষে একটি Bill এর পক্ষে এবং একটি Bill এর বিপক্ষে জোট দিবে।
2. J অবশ্যই Bill 1 এর বিপক্ষে জোট দিবে।
3. O অবশ্যই Bill 2 এবং Bill 3 এর বিপক্ষে জোট দিবে।
4. K তিনটি Bill এ যেভাবে জোট দিবে L ও সেভাবে জোট দিবে।
5. O তিনটি Bill এ যেভাবে জোট দিবে N ও সেভাবে জোট দিবে।

26. Which of the following must vote in favor of Bill 1?

- a) J b) K
c) L d) O

Answer: 3 নং শর্তমতে, O Bill 2 এবং Bill 3 এর বিপক্ষে জোট দেওয়ার O অবশ্যই Bill 1 এর পক্ষে ভোট দিবে। ans. D

27. The maximum number of favorable votes that Bill 2 could receive is -

- a) Two b) Three
c) Four d) Five

Answer: 3 নং শর্তমতে, O Bill 2 এর বিপক্ষে জোট দিবে আবার, 5 নং শর্তমতে, N-এ Bill 2 এর বিপক্ষে জোট দিবে। 1 নং শর্তমতে, H তিনটি Bill এর বিপক্ষে জোট দিবে। তার মানে O, N, H Bill 2 এর বিপক্ষে জোট দিবে।
সূতরাং Bill 2 এর পক্ষে Maximum (7-3) বা 4 জন জোট দিতে পারে। ans. C

28. Which of the following cannot be true?

- a) J and K vote in favor of the same bill
b) J and O vote in favor of the same bill
c) J votes in favor of one bill and against two bills
d) K votes in favor of two bills and against one bill

Answer: Option B সত্ত্ব নয়। কারণ 2 নং শর্তমতে, J Bill 1 এর বিপক্ষে জোট দিবে। আবার 3 নং শর্তমতে O । এর বিপক্ষে জোট দিবে। সূতরাং J এবং O একই Bill 1 এর পক্ষে জোট দিতে পারে না। ans. B

29. If any bill is to be passed, which of the following must be among the legislators who vote in favor of it?

- a) J b) K
c) M d) N

Answer: আয়ত্ত জানি, একটি Bill Pass হবার জন্য কমপক্ষে চার জন legislator কে পক্ষে জোট দিতে হবে। 2 নং ও 3 নং শর্তমতে J একটি O দুটি Bill এর বিপক্ষে জোট প্রদান করবে। আবার, 5 নং শর্তমতে, N, O এর মতো জোট দিবে। অর্থাৎ, J, O, N এদের কেউ Must নয়। 8 নং শর্তমতে, K ও L একইভাবে জোট দিবে। ans. B

30. If M votes the same way that O does on all three bills, which of the following can be determined?

- a) Bill 1 will be passed
- b) Bill 1 will be defeated
- c) Bill 2 will be passed
- d) Bill 2 will be defeated

O সকল Bill এ যেভাবে জোট দেয় M যদি সেভাবে জোট দেয়। তবে Bill 1 এর পক্ষে চলে আসবে। তখন ৫নং শর্তমতে, O, M, N ১নং Bill এর পক্ষে চলে আসার বাবী ২নং ও ৩নং Bill টি J, K, L থারা কোনভাবেই Pass হবে না। তার মানে defeated হবে। option D সত্য।

ans. D

Questions (31 to 35): Answer the questions on the basis of the given information.

$1.5 \times 5 = 7.5$

31. Typically, the entrepreneur is seen as an individual who owns and operates a small business. But simply to own and operate a small business - or even a big business - does not make someone an entrepreneur. If this person is true entrepreneur, then new products are being created and new ways of providing services are being implemented.

Which of the following conclusions can best be drawn from the above passage?

- a) An owner of a large business may be an entrepreneur.
- b) Someone who develops an enterprise may be considered an entrepreneur.
- c) Entrepreneurs do not own and operate small businesses.
- d) Entrepreneurs are main actors in economic growth.

ans. B

32. During 2011, advertising expenditures on canned food products increased by 20 percent, while canned food consumption rose by 25 percent.

Each of the following if true, could help to explain the increase in food consumption EXCEPT-

- a) Advertising effectiveness increased
- b) Canned food prices decreased relative to substitutes
- c) Canned food producer were available in more stores
- d) Can opener production doubled

ans. D

33. In 1980, there were on the average 10 deaths at birth (infant mortality) per 10,000 population. By 1990, there were 8.5 and by 2000, 7.0. Today there were 5.5 deaths at birth per 10,000 population, and it is anticipated that the downward trend will continue.

Each of the following, if true, would help to account for this trend EXCEPT

- a) Medical care is more widespread are available.
- b) Sanitary conditions have improved.
- c) More effective birth control methods have been implemented.
- d) The number of pediatricians per 10,000 population has increased.

ans. C

34. Ten books are arranged in a row following a certain sequence. Among them 3 are History, 3 are Economics, 2 are Math's and 2 are English. From the left, there is an English book between a History and Math's book, a History book between a Math's and an English book, an Economics book between an English and a Math's Book, a Math's book between two Economics books and two Economics book between a Math's and a History book. Book of which subject is at sixth position from the left?

- a) Economics
- b) English
- c) History
- d) Mathematics

ans. A

Twenty-seven persons attended a party. Which one of the following statements can never be true?

- a) There is a person in the party who is acquainted with all the twenty-six others.
- b) Each person in the party has a different number of acquaintances.
- c) There is a person in the party who has an odd number of acquaintances.
- d) In the party, there is no set of three mutual acquaintances.

ans. B

Section D:	General Knowledge	Marks : 15
Questions (36 to 50) : Choose the correct answer.		$1 \times 15 = 15$
36. Who among the following own the Nobel Prize for literature?	a) Linus Pauling b) Samuel Beckett c) Philip Noel Baker d) Ralph Bunche	
Answer : Samuel Beckett won the Nobel Prize for literature in 1969.		ans. B
37. "Impossible is a word which is found in a fool's dictionary" was the observation of:	a) Abraham Lincoln b) Bangabandhu Sheikh Mujibur Rahman c) Napoleon d) A. Hitler	
		ans. C
38. International Mother Language Day is being observed since-	a) 1999 b) 2000 c) 2001 d) 2002	
Answer : ১৭ নভেম্বর ১৯৯৯ সালে ইউনেস্কো ২১ ফেব্রুয়ারিকে আন্তর্জাতিক মাতৃভাষা দিবস হিসেবে শীকৃতি দেয়।		ans. B
39. The tribe 'Hajong' mainly lives in-	a) Mymensingh and Netrokona b) Cox's Bazar and Bandarban c) Rangpur and Dinajpur d) Sylhet and Rangamati	
		ans. A
40. The book "Glimpses of World History" was written by?	a) Rabindranath Tagore b) Carlyle c) Jawaharlal Nehru d) Karl Marx	
Answer : Glimpses of World History, a book published by Jawaharlal Nehru in 1934, is a panoramic sweep of the history of humankind.		ans. C
41. Which country is bordered by both the Atlantic and Indian Ocean?	a) India b) South Africa c) Japan d) China	
		ans. B
42. An imaginary state of society is called-	a) Socialism b) Communism c) Utopia d) Euphoria	
		ans. C
43. Which one of the following ecosystem covers the largest area of the earth's surface?	a) Desert Ecosystem b) Mountain Ecosystem c) Fresh water Ecosystem d) Marine Ecosystem	
		ans. D
44. The Lalbagh Mosque is situated in the district of-	a) Bogra b) Rangpur c) Pabna d) Chittagong	
Answer : লালদীয়ি মসজিদ একটি প্রাচীন মসজিদ। যা রংপুর জেলার বদরগঞ্জ উপজেলার লালদীয়িতে অবস্থিত।		ans. B
45. Numismatics is the study of-	a) Stamps b) Space c) Numbers d) Coins	
Answer : Numismatics is the study or collection of currency, including coins, tokens, paper money, and related objects.		ans. C
46. Logarithm tables were invented by-	a) John Napier b) John Doe c) John Harrison d) John Douglas	
Answer : Logarithms were introduced by John Napier in the early 17th century.		ans. A

17. What Is not Included In narrow money (M_1)?
 a) Currency b) Demand deposits
 c) Other Checkable deposits d) Time deposits ans. D
18. The term 'ball out' is related with-
 a) Baseball b) Banking
 c) Cricket d) Strike ans. B
19. The Euro-Zone crisis is mainly caused by:
 a) Exchange Rate Volatility b) Sub-prime Lending
 c) Sovereign debt d) Fiscal restraint ans. C
20. The recently declared monetary policy of Bangladesh Bank is-
 a) Expansionary b) Contractionary
 c) Accommodative d) Flexible ans. C

Part- II :

Descriptive

Marks: 40

Translate Into English.

আর্থ সামাজিক ক্ষেত্রে গত দুই দশকে বাংলাদেশ বেশ কিছু বড় অর্জন করেছে। যে দেশটির ভবিষৎ নিয়ে অসন্তোষ সংশয় ছিল, সেই দেশটিই নানা ক্ষেত্রে বড় অর্জন করেছে। বাংলাদেশের গড় আয় এবন ভারতের চেয়ে বেশি, শিশু ও মাতৃমৃত্যুর হার ক্ষানোর ক্ষেত্রে বাংলাদেশের অগ্রগতি উল্টোর করার মতো। নারীর ক্ষমতারন, শারীরিক জনগোষ্ঠীর আয় না কমা, ধান উৎপাদন বৃদ্ধি, অপুষ্টির হার আপের ক্ষুলনাম উল্টোখন্যোগ্য হারে কমা- এসবই দেশটির সফলতার কাহল।

Answer : Bangladesh has achieved a significant amount of development in the socio-economic field in the last two decades. Although there was a frustration about the future of this country, it has achieved the significant successes in various fields. The average life expectancy of people in Bangladesh is more than that of the people of India: the progress in reducing the percentage of the child and maternal death is noticeable. Women empowering not reducing the income of rural people, increasing rice production decreasing malnutrition rate than before in a noticeable rate are the causes of success of this country.

Write an essay on "Effects of Social Networking Sites".

12

Answer :

Negatives Effects :

Not everyone in the 21st century thinks about the negative effects of having social networking accounts - but simple things like not setting your privacy settings properly or liking someone's photo can have bad results.

Cyber bullying can be a problem as people can take advantage of the fact that there is no one who can effectively stop the bullying when it happens, due to everything being performed behind a screen. The only way for a bully to be stopped is if they are reported and victims may be too intimidated to do it. Social networking can also ruin relationships as people may get jealous if they find out their boyfriend or girlfriend is exchanging messages with other people.

It can also be a waste of time as people can visit a site to check on thing and end up spending the whole day 'behind the screen' and as a result, not doing anything useful with their lives.

Positives :

Social networking has lots of good points:

You can express yourself, showing off your favorite song lyrics or posting pictures of your new outfit. It is a lot harder to feel embarrassment over the internet than in person, so people find it easier to verify their feelings on sites like Facebook.

In fact, it has become so much a part of people's lives that you can learn someone's life story just by checking their page. Their friends, likes and dislikes, relationship status, phone number, address . everything.

You can share your feelings and your mental stresses - and it is a great way to entertain yourself after busy daily routine.

It also makes it a lot easier to keep in touch with family and friends, especially if they live far away. But you can also make new friends by connecting with friends of friends that you might not know.

- III. "Capital punishment, or death penalty, is a debatable practice. In many countries it is valid, while others consider it inhuman and are against it." Express your views in this regard. 7

- IV. Solve the following problems : 4 x 2 =

1) A father divides his property between his two sons A and B. A invests the amount at compound profit of 8% p.a. B invests the amount at 10% p.a. simple profit. At the end of 2 years, the profit received by B is Tk. 1336 more than profit received by A. Find the share of A in the father's property of Tk 25,000.

Answer:

Let, A gets = x Taka

∴ B gets $(25000 - x)$ Taka

According to question,

$$\text{Interest received by A} = x \left(x + \frac{8}{100} \right)^2 - x = x \left(\frac{25+2}{25} \right)^2 - x$$

$$= \frac{729x}{625} - x$$

$$= \frac{729x - 625x}{25} = \frac{104x}{625}$$

According to question,

$$\text{Interest received by B} (25000 - x) \times 10\% \times 2 = \frac{(25000 - x) 10 \times 2}{100}$$

$$= \frac{25000 - x}{5}$$

According to the question,

$$\frac{25000 - x}{5} - \frac{104x}{625} = 1336$$

$$\Rightarrow \frac{3125000 - 125x - 104x}{625} = 1336$$

$$\Rightarrow 3125000 - 229x = 835000$$

$$\Rightarrow 229x = 2290000$$

$$\therefore x = 10000 \text{ (Answer)}$$

- 2) In a country, 60% of the male citizen and 70% of the female citizen are eligible to vote. 70% of male citizens eligible to vote voted, and 60% of the female citizens eligible to vote voted. What fraction of the citizens voted during the election?

Answer: Let, the total number of male citizen is = 100 and female citizen is = 100

$$\therefore \text{Eligible of male voter} = 100 \times 60\% = 60$$

$$\therefore \text{Eligible of female voter} = 100 \times 70\% = 70$$

$$\text{Male voter voted } 60 \times 70\% = 42$$

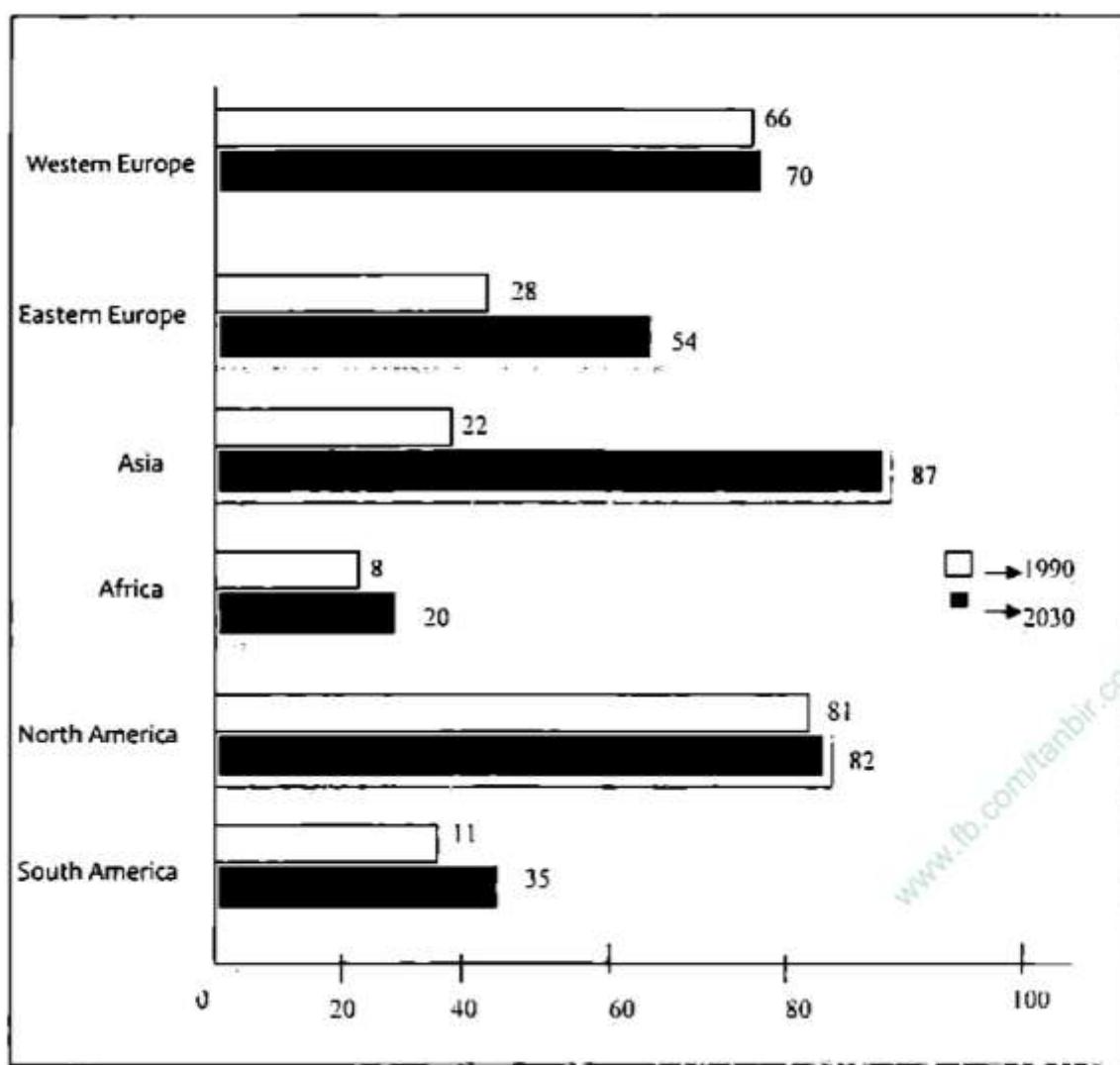
$$\text{Female voter voted } 70 \times 60\% = 42$$

$$\therefore \text{Total voted} = 42 + 42 = 84; \text{Total citizen} = 100 + 100 = 200$$

$$\therefore \text{The fraction of citizens voted during the election} = \frac{84}{200} = \frac{21}{50} \text{ (Answer)}$$

- V. Write a report describing the information shown in the following graph. 7.5

Figure: Percentage of Population Living or working in Air-conditioned Environments, 1990 and 2030 (Projected).



Answer: The given graph shows the percentage changes of population living or working in air-conditioned environment in five regions in the world in 1990 and projected for the year 2030.

As obtainable from the given data, in 1990 Eastern Europe had the percentage much less than that of Western Europe, with 28% in Eastern Europe and 66% in Western Europe, which is projected to rise by 26% in 2030 in eastern region and by 4% in western region. In South America and Africa these percentage were the lowest with 8% and 11% respectively. In North America the percentage in 1990 was nearly the same as the projected percentage increase in 2030. In Asia it was estimated the highest increase from 22% to 87% during this period. In percentage increase, South Africa can be placed at second position after Asia.

Overall, during this period there are a little increase in Western Europe and North America. On the other hand, noteworthy increases are projected for other regions.

MIDLAND BANK LTD

RECRUITMENT TEST OF TRAINEE ASSISTANT OFFICER- 2015

FULL MARKS: 100; TIME: 90 MINUTES

Part-I (MCQ);

Marks: 60

Section A:

English Proficiency;

Marks: 15

Read the following passage carefully and answer the questions based on it.

$1 \times 5 = 5$

A well-established Bangladeshi industrialist in a recent article on ways to strengthen the economy of Bangladesh has drawn attention to the problems of inflation and industrial sickness among other things. One of the main reasons for Industrial sickness in our country has been the fact that business and industrial managers have not been able to look beyond the immediate future. They have been too preoccupied with their attempts to report favorable results for the current year-higher profits and larger dividends to the shareholders. The planning horizon has hardly ever exceeded five years. Investments have been inadequate for new plants towards diversification and expansions. Modernization and asset creation has seriously lagged behind. In business, growth is needed for survival. One has to grow if one does not want to be wiped out. This is particularly true today with liberalization of imports and increasing competition. Moreover, growth and higher productivity create employment and higher employment creates larger markets both for industrial and consumer products. For this, there is a need for the creation of a larger and a more stable middle class, that is, a larger number of people who can afford more and more of goods and services. Even after forty two years of independence, our industrialists have not been able to shed the petty shopkeeper's mentality and our highly educated management has tagged along merrily and without concern.

01. According to the passage, growth and increasing productivity lead to-

- a) imposition of restrictions on imports
- b) employment and thus provide an outlet to industrial and consumer products
- c) encouragement to export of excess consumer goods
- d) disproportionate surplus of commodities

Answer: অপশন (B) তে অর্থাৎ growth and increasing productivity lead to employment and thus provide an outlet to industrial and consumer products. অর্থাৎ প্রযুক্তি ও বর্ধনশীল উৎপাদনশীলতা কর্মক্ষেত্র তৈরি করে এবং এভাবে শিল্প ভোকাপগ্রের বিকাশকেন্দ্র তৈরি হয়। সুতরাং সঠিক উত্তর অপশন (B).

ans. B

02. Which of the following shortcomings of Bangladeshi industrialists has been highlighted by the author?

- a) They invest unreasonably high amount on diversification and expansion.
- b) They are reluctant to maintain the shopkeeper mentality.
- c) They are more concerned with immediate net gains than for developmental activities.
- d) They are less concerned for payment of dividends to shareholders

Answer: Passage এর ১ম দিকের ওয়ার্ডসের One of the main থেকে পরবর্তী দুটি বাক্য পড়লে এখনোর উত্তর পাওয়া যায়। উত্তর হবে অপশন c).

ans. C

03. The leading Industrialist attributes Industrial sickness mainly to
- lacunae in five-year plans
 - preoccupations of managers with matters unrelated to business
 - higher profits and larger dividends to shareholders
 - lack of foresight among managers

Answer: সঠিক উত্তর আছে অপশন (D) তে, অর্থাৎ ম্যানেজারদের মধ্যে দৃঢ়সূচির অভাবই মূলত industrial sickness- এর কারণ হয়।

ans. D

04. According to the passage, the net gains pursued by managers are at the cost of-
- diversification, modernization and asset creation
 - availability of markets for industrial and consumer products
 - inflation and Industrial sickness
 - liberalization of imports and increasing competition

Answer: সঠিক উত্তর অপশন (A) তে পাওয়া যায়- The net gains pursued by managers are at the cost of diversification, modernization and asset creation. অর্থাৎ বহুবীকরণ, আধুনিকায়ন ও সম্পদ সৃষ্টি বিসর্জন দিয়ে বা এসের বিনিয়য়ে ম্যানেজারদ্বা নিউ মুদ্রাফর পেছনে ছাটে বেড়ায়।

ans. A

05. The planning horizon has hardly ever exceeded-five-years" Implies that-
- planning should not be for a period of less than five years.
 - the planning process is very time consuming.
 - the planners are not inclined to think of the future.
 - five-year period is too short for successful implementation of plans.

Answer: প্রশ্নটির অর্থ- 'পরিকল্পনার সীমাবেদ্ধ করনো পাঁচ বছর অতিক্রম করেনি'- এটি ধারা কি বুঝানো হয়েছে। Passage অনুসারে এর অর্থ অপশন (D) তে আছে।

ans. D

Questions (06 to 10): Choose the One which best expresses the meaning of the given idiom.

1 x 5 = 5

06. To smell a rat
- To detect bad smell
 - To misunderstand
 - To suspect a trick or deceit
 - To see hidden meaning

Answer: To smell a rat অর্থ প্রত্যাখ্যা বা অপকর্মের গন্ত পাওয়া।

ans. C

07. To take a leap in the dark
- To take risk
 - To hazard one self
 - To do a task secretly
 - To do a hazardous tiling without any idea of the result

Answer: To take a leap in the dark অর্থ পরিশ্রম না করে কেন কিছু করা।

ans. D

08. Castles in the air
- Romantic designs
 - Visionary projects
 - Fanciful schemes
 - Ideal projects

Answer: Castles in the air অর্থ যে পরিকল্পনার বাস্তবে জল পাওয়ার সম্ভাবনা তেমন নেই।

ans. C

09. To blow hot and cold
- Changing weather
 - To be untrustworthy
 - To be inconsistent
 - To be rich and poor frequently

Answer: To blow hot and cold অর্থ প্রায়ই মত পরিবর্তন করার কারণে বিষম্বন্ত হওয়া।

ans. C

10. By the rule of thumb
- By the use of force
 - By the use of trickery
 - By cheating and deception
 - By practical experience which is rather rough

Answer: By the rule of thumb অর্থ অভিজ্ঞতা ও অনুশীলনের পর প্রতিষ্ঠিত পদ্ধতি বা পদ্ধতি।

ans. D

Questions (11 to 15): Choose the most appropriate alternative to complete the sentence.

1 x 5 =

11. You need _____ shoes for walking in the hills.

- a) good
- b) comfortable
- c) satisfactory
- d) sturdy

Answer: পাহাড়ে হাঁটার জন্য তোমার টেকসই জুতার প্রয়োজন।

ans.

12. Authority _____ when it is not supported by the moral purity of its user.

- a) crumbles
- b) waits
- c) empowers
- d) prevails

Answer: Authority crumbles when it is not supported by the moral purity of its user. অর্থাৎ ব্যবহারকারী
নৈতিক বিত্তস্থতার দ্বারা যদি সমর্থিত না হয় তাহলে নৈতিক ক্ষমতা দুর্বল হয়ে যায়।

ans.

13. No one likes to be forced into _____ situations.

- a) humble
- b) insulting
- c) humiliating
- d) infuriating

Answer: No one likes to be forced into humiliating situations. অর্থাৎ অন্যের দ্বারা অপমানজনক পরিস্থিতিতে পড়া
কেউই পছন্দ করে না।

ans.

14. The reward is a _____ of her service to mankind.

- a) memento
- b) memorial
- c) witness
- d) recognition

Answer: The reward is a recognition of her service to mankind. অর্থাৎ পূরকারিতি হল মানুষের প্রতি তার সেবার এক
শীকৃতি।

ans.

15. Though they did not speak to each other much, there was a _____ understanding between them.

- a) placid
- b) contractual
- c) tacit
- d) verbal

Answer: Though they did not speak to each other much, there was a tacit understanding between them.
অর্থাৎ যদিও তারা একে অপরের সাথে তেমন বেশি কথা বলত না, কিন্তু তাদের মধ্যে যৌন বোঝাপরা ছিল।

ans.

Section B:

Mathematics

Marks: 1

Questions (16 to 20): Choose the correct answer.

1.5 x 10 = 1

16. In a certain recipe $2\frac{1}{4}$ cups of flour are called for to make a cake that serves 6. If Mrs. Jesmin wants
to use the same recipe to make a cake for 8, how many cups of flour must she use?

- a) $2\frac{1}{3}$ cups
- b) $2\frac{3}{4}$ cups
- c) 3 cups
- d) 4 cups

Answer:

6 জনকে serve করতে লাগে $\frac{9}{4}$ কাপ flour

$$\therefore 8 \text{ জনকে serve করতে লাগে } \frac{9 \times 8}{4 \times 6} = 3 \text{ কাপ flour}$$

ans.

17. A man walks down the road for half an hour at an average speed of 3 miles per hour. He waits 10 minutes for a bus, which brings him back to his starting point at 3:15. If the man began his walk at 2:25 the same afternoon, what was the average speed of the bus?

- a) 3 mph b) 4.5 mph
c) 6 mph d) 9 mph

Answer:

লোকটি ঘন্টায় 3 মাইল বেগে হাঁটে। সূতরাং লোকটি আধা ঘন্টায় বা 30 মিনিটে যায় $\frac{3}{2} = 1.5$ মাইল।

বাসের জন্য অপেক্ষা করে = 10 মিনিট

∴ লোকটি যোটি সময় নেয় = $(30 + 10)$ বা 40 মিনিট।

∴ লোকটি বিকাল ২.২৫টায় রওনা করে 30 মিনিট হাঁটে এবং 10 মিনিট বাসের জন্য অপেক্ষা করলে তখন সময় দীড়ায়

$$= (2.25 + 30 + 30) = 3.05 \text{ মিনিট}$$

বাসটি লোকটিকে তার যাত্রার পূর্বে হাঁটে নিয়ে আসে বিকাল 3.15 টায়। অর্থাৎ বাসটির যোটি সময় কাগে $(3.15 - 3.05) = 10$ মিনিট

অর্থাৎ বাসটি 10 মিনিটে 1.5 মাইল পথ অতিক্রম করে। 10 মিনিট = $\frac{10}{60}$ ঘণ্টা।

$$\therefore \text{বাসটির গতিশৈবর} = \frac{\text{পূরক}}{\text{সময়}} = \frac{1.5}{\frac{10}{60}} = 1.5 \times \frac{60}{10} = 9 \text{ মাইল/ ঘণ্টা।}$$

ans. D

18. The ratio of the area of a circle to the radius of the circle is -

- a) π b) 2π
c) π^2 d) Cannot be determined

Answer:

আমরাজানি,

বৃত্তের ব্যাসার্ধ r হলে বৃত্তের ক্ষেত্রফল πr^2

$$\frac{\pi r^2}{r} = \pi r$$

$r = 1$ হলে,

$$\pi r^2 = 4\pi$$

$$\text{ratio} = \frac{4\pi}{2} = 2\pi$$

$$r = 1 \text{ হলে}, \pi r^2 = \pi$$

$$\therefore \text{ratio} = \pi$$

এখানে বৃত্তের ব্যাসার্ধ কত তা বলা হয়নি তাই বৃত্তের ক্ষেত্রফল ও নির্মাণ করা যাবে না। উপরে $r = 1$ হলে ratio হয় π আবার $r = 2$ হলে ratio হয় 4π । তাই বৃত্তের ব্যাসার্ধ নিশ্চিত করা না হলে বৃত্তের ক্ষেত্রফল ও ব্যাসার্ধের অনুপাতও নির্ণয় করা যাবে না।

ans. D

19. If $4m = 9n$, what is the value of $7m$ in terms of n ?

- a) $\frac{63n}{4}$ b) $\frac{9n}{28}$
c) $\frac{7n}{9}$ d) $\frac{28n}{9}$

Answer:

$$4m = 9n$$

$$\Rightarrow m = \frac{9n}{4}$$

$$\Rightarrow 7m = \frac{9n \times 7}{4}$$

$$\therefore 7m = \frac{63n}{4}$$

ans. A

20. If the average of five consecutive even numbers is 8, which of the following is the smallest of the five numbers?

- a) 4 b) 5
c) 6 d) 8

Answer:

পৰপৰ ৫ টি জোড় সংখ্যার গড় ৮ তাৰ মানে মাকেৱ সংখ্যাটি ৮



সবচেয়ে ছোট সংখ্যাটি হলো ৮

কোন কিছুৰ Average x মানে মাকেৱ সংখ্যাটি x

আহৰা সবাই জানি একটি গান 'মাঝখানে নদী ঐ বয়ে চলে যায়।' মাঝখানে Average ঐ বয়ে বলে যায়।

ans. A

21. Which of the followings cannot be a value of $\frac{1}{x-1}$?

- a) -1 b) 0
c) $\frac{2}{3}$ d) 1

Answer:

কোনটি $\frac{1}{x-1}$ এর মান 0 হতে পাৰে না। অপশন b) অৰ্থাৎ 0 কখনও $\frac{1}{x-1}$ এর মান হতে পাৰে না।

দেখুন কিভাবে:

$$\frac{1}{x-1} = 0 \Rightarrow 1 = (x-1) \times 0 \Rightarrow 1 = 0 \text{ impossible}$$

এটা কোন সমীকৰণ নয়। তাই এর মান নির্ণয় অসম্ভব। অৰ্থাৎ $\frac{1}{x-1} = 0$ হতে পাৰে না। বাবী অপশন গুলো হতে পাৰে।

দেখুন কিভাবে:

$$x = 0 \text{ হলে, } \frac{1}{0-1} = -1 ; x = 2 \text{ হলে, } \frac{1}{2-1} = 1 ; x = \frac{5}{3} \text{ হলে, } \frac{1}{\frac{5}{3}-1} = 1 \times \frac{2}{3} = \frac{2}{3}$$

$$x = 1 \text{ হলে, } \frac{1}{x-1} = \infty \text{ হবে কিন্তু কখন } 0 \text{ হবে না।}$$

ans. B

22. The savings of an employee equals income minus expenditure. If their incomes ratio is 1 : 2 : 3 and their expenses ratio is 3 : 2 : 1, then what is the order of the employees A, B, and C in the increasing order of the size of their savings?

- a) A > B > C b) A > C > B
c) B > A > C d) C > B > A

Answer:

দেওয়া আছে,

A, B এবং C এৰ income ratio 1 : 2 : 3 এবং expenses ration 3 : 2 : 1.

যেহেতু saving = income - expenses, অনুপাতগুলোকে সংখ্যায় নিয়ে বোধা যাব।

ধৰি A, B ও C এৰ income যথাক্রমে 100, 200, 300 এবং বাৰ যথাক্রমে 90, 60 এবং 30.

তাহলৈ Savings যথাক্রমে 10, 140 ও 270.

তাৰ মানে A- এৰ Savings সবচেয়ে কম। এভাবে তাৰেৰ Savings order হবে A > B > C.

ans. A

23. Of 30 applicants for a job, 14 had at least 4 years' experience, 18 had degrees, and 3 had less than 4 years' experience and did not have a degree. How many of the applicants had at least 4 years' experience and a degree?

- a) 13 b) 9
c) 5 d) 7

Answer:

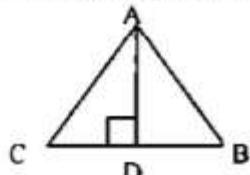
	Degree	No Degree	Total
At least 4 years Degree	5	9	14
Less than 4 years Degree	13	3	16
Total	18	12	30

This Is Magic box (ম�িক বক্স)

box এর ভাণ্ডাৰ অনুপাতী 5 অৱ্যন্তৰীয় applicants এৰা At least 4 years experience and Degree আছে।

ans. C

24. What is the area of the equilateral triangle If the base BC = 6 ?



- a) $9\sqrt{3}$ b) $18\sqrt{3}$
c) $26\sqrt{3}$ d) $30\sqrt{3}$

Answer:

দেখা আছে, Base বা বাহু = 6

সূতৰাঙ AB = BC = CA = 6

আমরা জানি,

$$\text{সমবাহু ত্রিভুজের ক্ষেত্রফল} = \frac{\sqrt{3}}{4} \times \text{বাহু}^2$$

$$= \frac{\sqrt{3}}{4} \times (6)^2$$

$$= 9\sqrt{3}$$

ans. A

25. If two non-zero positive integers p and q are such that $p = 4q$ and $p < 8$, then q = ?

- a) 2 b) 1
c) 3 d) 4

Answer:

p and q are nonzero positive integers

অর্থাৎ p and q সূচি ধমাত্তক পূর্ণসংখ্যা।

আবার

$p = 4q$ মানে p, q-এর চারগুণ।

$$\Rightarrow p = \frac{p}{4} \text{ মানে } q, p \text{ এৰ } \frac{1}{4} \text{ অংশ।}$$

$p < 8$, p এৰ যান এৰ 8 ক্ষেত্ৰে কম। $q = ?$

q এৰ যান 2, 3 বা 4 হবে না কাবল $p < 8$

a) $p = 4q$

$$\Rightarrow p = 4 \times 2 = 8; \quad p = 8 \text{ সম্ভব নহয় } p < 8$$

একইভাৱে,

c) $p = 4 \times 3 = 12$ সম্ভব নহয় $p < 8$

d) $p = 4 \times 4 = 16$ সম্ভব নহয় $p < 8$

\therefore উক্তৰ option b) হবে।

ans. B

Section C:**Analytical Ability****Marks: 15****Questions (26 to 30): Choose the correct answer.** **$1.5 \times 6 = 9$**

26. For every novel in the library there are 2 science books; for each science book there are 7 economics books. Express the ratio of economics books to science books to novels in the library as a triple ratio.

- a) 7 : 2 : 1 b) 7 : 1 : 2
c) 14 : 2 : 1 d) 14 : 1 : 2

Answer:For 1 Novel \rightarrow 2 Science books; For 1 Science book \rightarrow 7 Economics Books

Novel : Science : Economic = 1 : 2 : 14

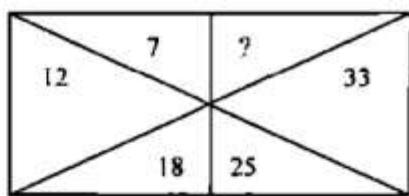
 \therefore Economic : Science : Novel = 14 : 2 : 1

Now Triple ratio = 42 : 6 : 3 = 14 : 2 : 1

ans. C

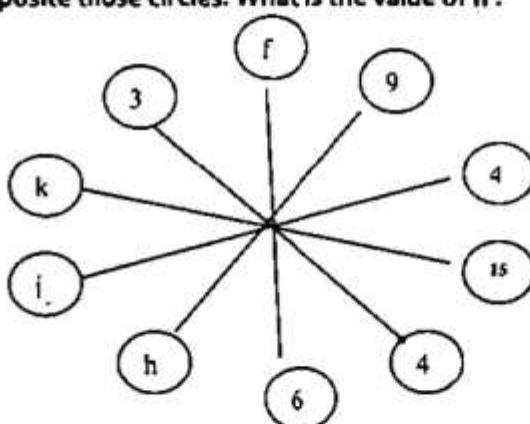
27. Which number is appropriate in place of question number?

- a) 40
b) 42
c) 13
d) 58

Answer:এখানে, ৭ থেকে 12 = ৫ [$\because 7 + 5 = 12$]12 থেকে 18 = ৬ [$\because 12 + 6 = 18$]18 থেকে 25 = ৭ [$\because 18 + 7 = 25$]25 থেকে ৩৩ = ৮ [$\because 25 + 8 = 33$]৩৩ থেকে ৪২ = ৯ [$\because 33 + 9 = 42$ হবে]**ans. B**

28. In the figure, the product of any two numbers in adjacent circles is equal to the product of the two numbers that are opposite those circles. What is the value of h?

- a) 3
b) 8
c) 12
d) 16

**Answer:**

চিত্রে পাশাপালি দুটি কৃতির সমের দুটির উৎফল অপর পাশের কৃতিদুটির সংব্যোধনের উৎফলের সমান।

$$\text{যেহেন}: 3 \times f = 4 \times 6 \quad \Rightarrow f = \frac{4 \times 6}{3}$$

$$\therefore f = 8$$

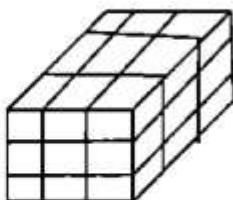
$$\text{again}, f \times 9 = 6 \times h$$

$$\therefore h = \frac{72}{6} = 12$$

ans. C

29. The following figure consists of twenty-seven cubes. How many cubes will get closed on all sides by other cubes?

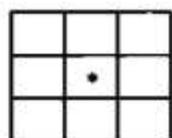
- a) 1
- b) 3
- c) 6
- d) 9



Answer:

२७ टी घनक निये चित्रित तैरि हयोहे। घनक अनुयायी चित्रित 9×3 अर्थात् 9 टी करे घनक संबंधित तिनटी चित्र घारा गठित हयोहे।

आमरा आलादा तारे चित्रा करि,



अप्पेहर चित्रितेश लक्ष्य करले देखा याम cube तसो एक, दुई वा तिन दिक निये आवक्ष। किञ्च एकटी याम cube चागदिक निये आवक्ष आहे।

ans. A

30. Which would be third in alphabetical order?

- | | |
|-----------|--------------|
| a) Maundy | b) Mauve |
| c) Move | d) Mausoleum |

Answer:

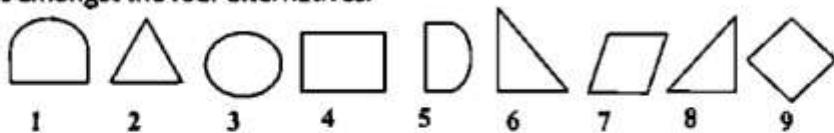
- a) Maundy
- b) Mauve
- c) Move
- d) Mausoleum

Alphabetically : N ————— S ————— V

- (a)
- (d)
- (c)

ans. B

31. A number for each figures are given from 1 to 9. Find out the best method of classification and identify this amongst the four alternatives.



- a) (1, 3, 5); (2, 6, 9); (4, 7, 8)
- b) (2, 3, 4); (5, 6, 8); (9, 1, 7)
- c) (1, 3, 5); (2, 6, 8); (4, 7, 9)
- d) (3, 2, 4); (6, 5, 8); (7, 9, 1)

Answer:

1, 3, 5 → बुक्स एवं बुक्सर अंग / अर्धवृत्त समजातीय

2, 6, 8 → विज्ञ विकृत

4, 7, 9 → विज्ञ चतुर्भुज

ans. C

Q. (32 to 35) Such the following Table carefully and answer the given questions.

$1.5 \times 4 =$

Number of students of different classes of school playing different games

Class → Games↓	XII	XI	X	IX	VIII	VII	VI
Chess	11	12	5	4	2	2	1
Cricket	38	40	12	17	25	18	20
Basketball	11	9	7	6	0	0	0
Table Tennis	9	9	21	19	11	9	0
Football	40	27	18	19	12	16	14
Carrom	16	15	8	19	12	16	14
Tennis	8	9	11	5	6	0	0
Badminton	47	39	33	21	19	0	0

32. Approximately what percent of Class VIII students play Cricket out of the total students playin Cricket?

- a) 13 b) 4
c) 15 d) 17

Answer:

Total student playing Cricket = $38 + 40 + 12 + 17 + 25 + 18 + 20 = 170$

Class VIII students playing Cricket = 25

$$\% \text{ of a Class VIII play cricket} = \frac{25}{170} \times 100 = 14.75 \approx 15\%$$

ans.

33. What is the ratio of the student playing football in class XI to those in Class X ?

- a) 1 : 2 b) 2 : 5
c) 2 : 3 d) 3 : 2

Answer:

Class XI football টেলে = 27 অন: Class X football টেলে = 18 অন

$$\text{Ratio} = 27 : 18 = 3 : 2$$

ans.

34. Approximately what percent of Class X students play Table Tennis out of the total Class X studen playing the different given games?

- a) 18 b) 21
c) 27 d) 20

Answer:

Class X student play Table Tennis = 21

Class X students play different games = $5 + 12 + 7 + 21 + 18 + 8 + 11 + 33 = 115$

$$\text{So, } \% = \frac{21}{115} \times 100 = 18\%$$

[18% কিভাবে ?? 21 % হবে না কারণ 115, 100 এর সমান নয়। 20% হবে না কারণ 115 এর দ্বিগুণ 230 আর উপরে আছে 21 * 100 মূলত 20% এর চেয়ে কম হবে।]

ans.

35. Which game has ascending number of students from class IX to XII ?

- a) Basketball only b) Badminton only
c) Carrom d) None of these

Answer:

Basketball & Badminton উভয় খেলাই খেলোয়াড়দের সংখ্যা মানের উচ্চতম অনুসারে দেয়া আছে। অর্থাৎ 6, 7, 9, 11 এবং 21, 3
39, 47

মূলত অপশন a) ও b) উভয়ই উভয় হবে।

ans. A &

Section D:	General Knowledge		Marks: 15
36.	World's longest tunnel is In-	a) China b) United Kingdom c) France d) Canada	ans. B
37.	The currency of Indonesia is-	a) Dollar b) Lira c) Ringitt d) Rupiah	ans. D
38.	Ramon Magsaysay award is named after the former President of -	a) Philippines b) Malaysia c) Thailand d) South Korea	ans. A
39.	The first woman to win Nobel Prize in Economics is-	a) Herta Muller b) Elinor Ostrdm c) Doris Lessing d) Anna Akhmatova	ans. B
40.	The highest mountain peak in Bangladesh is -	a) Tajingdong b) Bijoy Tajingdong c) Dumlong d) Keokradong	ans. A
41.	When is the World Population Day observed?	a) May 31 b) October 4 c) December 10 d) July 11	ans. D
42.	Which one is not a central bank?	a) State Bank of India b) State Bank of Pakistan c) Bank of England d) Saudi Arabian Monetary Author	ans. A
43.	The Sonakanda fort situated in the district of-	a) Munshigonj b) Hajigonj c) Narayangonj d) Kushtia	ans. C
44.	The capital of Finland is	a) Copenhagen b) Berlin c) Hague d) Helsinki	ans. D
45.	Which one is the biggest continent (in areas) in the world?	a) Africa b) Europe c) Asia d) North America	ans. C
46.	The area of which city is occupied by two continent?	a) Istanbul b) Cairo c) Paris d) Tokyo	ans. A
47.	Who compiled and edited the document of liberation war of Bangladesh?	a) Syed Shamsul Hoque b) Hassan Hafizur Rahman c) Hassan Azizul Huq d) Alauddin Al-Azad	ans. B
48.	In medical science a doctor who deals with cancer is called-	a) Urologist b) Pediatrician c) Oncologist d) Orthopedic Surgeon	ans. C
49.	Which city is called 'The city of flowering trees'?	a) Harare b) Tokyo c) Paris d) Venice	ans. A
50.	Where is Adam's Peak?	a) Indonesia b) Viet Nam c) Sri Lanka d) India	ans. C

Part- II:	Descriptive	Marks: 40
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I. Translate in English:

সারা পৃথিবীতে বিশ্ব পানির সংকট উত্তোলন ধারন করেছে। বিশেষ করে এশিয়া ও অফ্রিকার দেশগুলোতে দুর্ঘত্তি পানির কারণে প্রতিদিন হজার হজার শিশু মারা যায়। যদিও জাতিসংঘের এক বিশ্বত্বে বিশ্ব পানির অধিকারকে মানবাধিকার হিসেবে ঘোষণা করা হয়েছে, তবুও এখনও বিশ্বে প্রায় ১১ শতাংশ মানুষের জন্য বিশ্ব পানি নিশ্চিত করা সম্ভব হ্যালি। গ্রীষ্মকালে বাংলাদেশে এ অবস্থার আরো অবসর্তি ঘটে। অর্থাৎ, নদীমাতৃক বাংলাদেশে বিশ্ব পানির গ্রাম সংকট অনাকাঙ্খিত।

Answer:

Scarcity of pure water has become extreme in the whole world. Those of children die in every day due to pollution contaminated water, especially in Countries of Asia and Africa. Thousand of children specially in the countries of Asia and Africa dig in every day due to contaminated water. Although the right of pure water has declared as human right in an statement of united nations, Though, this is not possible to ensure pure water for 11 percent people of the world still now. This situation become more determinate during winter in Bangladesh, but, such type of scarcity of pure water is unexpected/undesirable in river irrigated Bangladesh.

II. Write a short note on "Duties of Good Citizen".

12.5

1. Obey Laws and Respect Authority-Don't break laws and also refrain others for doing so. If not satisfied by any Law use Constitutional means to change the Law.
2. Civic and Social Duty should be performed- Be aware about the issues affecting the society and provide solutions to them, Vote Intelligently and Pay Taxes by proper means and use acts like RTI, RTE for the good of the society.
3. Keep your surroundings and locality clean, Use Dustbin, Care for Public Property and Other People's Property.
4. Be Honest to your Country and Fellow Citizen
5. Develop a deep sense of Patriotism towards you Country, Respect your Country's Social and Economic Policies, Always contribute to the Welfare of our Country.
6. Must be able to teach the Younger Generation to show Respect and Love towards the Country.
7. Make your Country Proud when visiting other Nations, Never speak bad about your Country.
8. Help the Poor and Needy and Provide great Hospitality to both Foreign and Local Tourist.

III. "ভাষা আন্দোলন ও মুক্তিযুদ্ধ"- বিষয়ে একটি রচনা লিখুন।

12.5

বাঙালি জাতির শৌরবজ্ঞক বিজয় দুটো .. একটি বায়ানতে অন্যটি একান্তরে।

ভাষা আন্দোলনের পটভূমি :

১৯৪৭ সালের ১৪ আগস্ট আনুষ্ঠানিকভাবে পাকিস্তান প্রতিষ্ঠা লাভ করে। কিন্তু তার আগে? হিন্দীয় মহাযুক্তের শেষ প্রান্তে এসে যখন ব্রিটিশ সত্রাজ্যবাদ অতিযাতায় দুর্বল হয়ে পড়ে; ভারতবর্ষের স্বাধীনতা সংগ্রাম, সত্রাজ্যবাদবিরোধী সংগ্রাম তখন আরো উত্তোলন মাত্রা অর্জন

করে এবং ইংরেজদের পরাজয় ও ভারতবাসীর স্বাধীনতা অর্জন অনেকাংশেই সুনিশ্চিত হয়ে পড়ে। এ পরিস্থিতিতে ভীতসন্ত্বষ্ট ইংরেজ শাসক গোটী মুসলিম শীগকে হাত করে। মুসলিম শীগ ১৯৪০ সালে শাহৰের কাউপিসে গৃহীত সিঙ্গার অনুযায়ী ভারতের পূর্ব ও পশ্চিম প্রান্তে মুসলিম সংখ্যাগরিষ্ঠ অঞ্চলগুলো নিয়ে মুসলমানদের ব্রতজ্ঞ আবাসগুল হিসেবে পাকিস্তান প্রতিষ্ঠার দাবি উৎপন্ন করে মুহাম্মদ আলী জিনাহর স্মৃতিতে। অর্ধাং ভারতবর্ষের সাম্প্রদায়িক ডিভিতে বিভক্তি। এ তত্ত্বকে বিজ্ঞাতিত্ব বলে অভিহিত করা হয়। মুসলিম শীগ এ দাবি উৎপন্নের সঙ্গে প্রধানত হিন্দু মেত্তাধীন ভারতীয় জাতীয় কংগ্রেস, ভারতের কমিউনিস্ট পার্টি, রাষ্ট্রিকাল ডেমোক্রেটিক পার্টি প্রভৃতি তার উত্তর বিরোধিতা করলে ইংরেজ শাসক গোটী মুসলিম শীগ ও কংগ্রেসের সাম্প্রদায়িক অংশের সঙ্গে ঘড়্যন্ত করে নানা ফানে ডয়াবহ সাম্প্রদায়িক দাসার সৃষ্টি করে। দফায় দফায় এ দাসা বাধিয়ে প্রায় ১ লাখ নিরীহ হিন্দু-মুসলমান নরনারী হত্যা, অপহরণ, ধর্ষণ, অগ্নিসংযোগ লুটপাট প্রভৃতির মাধ্যমে এমন পরিস্থিতি সৃষ্টি করা হলো যাতে কোনো সমাধান খুঁজে পাওয়া যাচ্ছিল না। ফলে বাধ্য হয়ে সর্বজনপ্রদের অসাম্প্রদায়িক জননেতা যোহন দাস করম চৌধুরীও পাকিস্তান প্রতিষ্ঠার দাবি মেমে নিতে বাধ্য হন। তাহলে পটভূমিটা দৌড়াল :

এক, হিন্দু-মুসলমানের মধ্যে চৰম অবিশ্বাস সৃষ্টি। একে-অন্যের শরু বলে উদ্দেশ্যমূলকভাবে প্রচারণা চালানো।

দুই, পরিস্থিতিতে ১৯৪৬ সালে পাকিস্তান প্রাণে গণভোটের ব্যবহাৰ হলে সেই গণভোটে বাঙালি মুসলমান সম্প্রদায় বিপুলসংখ্যক ভোটে একচেটিয়াভাবে পাকিস্তান দাবিৰ অনুকূলে তাদের সমৰ্থন ঘোষণা করে। অঞ্চলের ১৪ আগস্ট, ১৯৪৭ পাকিস্তান প্রতিষ্ঠিত হয়।

তিনি, পরিস্থিতিতে হিন্দু জনগোষ্ঠীর ব্যাপকভাবে দেশত্যাগ এবং শিক্ষা-দীক্ষা, শিশু-বাণিজ্য, সরকারি-বেসরকারি সব ধরনের চাকরিতে ও পেশায় এক তয়াবৰ শূন্যতার সৃষ্টি হয়।

চার, পুরো আৰহটাই ঘোৰ সাম্প্রদায়িক চিন্তা-চেতনায় ভৱপূৰ্ব। হিন্দুৰ সম্পত্তি গ্রাস কৰা অলিখিতভাবে বৈধতা অর্জন করে ইত্যাদি।

পাঁচ, বাংলা ভাষা হিন্দুৰ ভাষা, বাঙালি সংস্কৃতি হিন্দুৰ সংস্কৃতি ইত্যাকাৰ প্রচারণাচৰণা চালাতে থাকে পাকিস্তানের সাম্প্রদায়িক অবাঙালি শাসক গোটী। ফলে উপেক্ষিত হতে থাকে উর্দু ভাষাকে পাকিস্তানের একমাত্র রাষ্ট্রভাষা কৰার প্রসঙ্গ।

ছয়, তদুপরি পাকিস্তানের ওই শাসকগোষ্ঠী বাঙালি মুসলমানকে মুসলমান বলে মানতেও রাজি ছিল না। এ পটভূমিতে পাকিস্তান প্রতিষ্ঠার মাত্র হয় মাস পরেই ১৯৪৮ সালের দেক্ক্ষয়ারি ও মার্ট ভাষা আন্দোলনের সৰূপ সূচনা কৰা হয়। আন্দোলনকাৰীদের পাকিস্তানের দুঃশাসন, ভারতের দালাল, হিন্দুদের দালাল বলে অপবাদও দেয়া হয়। এ সব কিছুকে অধীক্ষাৰ কৰে মাতৃভাষা বাংলাকে উপযুক্ত মৰ্যাদায় প্রতিষ্ঠার যে সাহসী সংগ্রামের সূচনা হলো ১৯৪৮ সালের তৃতীয়ে, তা-ই পুনৰ্বিত হয়ে ৫২-তে এক অগ্রত্যোধ্য গতি সফার কৰে। ২১ ফেব্রুয়ারিতে ১৪৪ ধৰা জাৰি, তা অধান্য কৰা এবং অদম্য সাহসিকতার সঙ্গে ওই দিন পুলিশেৰ গুলিৰ সামনে বুক পেতে দিয়ে শহীদ হওয়াৰ মাধ্যমে দ্রুততম সংগ্রামের মধ্যে বাংলাকে পাকিস্তানের অন্যতম রাষ্ট্রভাষা হিসেবে শীৰ্ষীতি আৰায় কৰে সন্তোৱ এবং বাঙালি সংস্কৃতি, বাংলা কাৰ্য সাহিত্য বিকাশের অনুকূল পথ রচনা কৰার মাধ্যমে সাম্প্রদায়িকভাবে বিপৰীতে বিজাতিতেৰ অবসান এবং হিন্দু-মুসলিম ঐক্য ও জাতি হিসেবে সবাই বাঙালি এটাই মুখ্য এবং কে হিন্দু কে মুসলমান সে এগুলো প্রভৃতি বোধেৰ জাগৰণ না ঘটাতে পাৰলৈ মৃক্ষিযুক্ত অসম্ভব হয়ে পড়ত।

১৯৭১ সালের মহান মুক্তিযুদ্ধে সংগ্রামের মাধ্যমেই অর্জিত হয়েছিল বিজয়। এ ব্যাপারে জাতিৰ কোনো অংশের মধ্যেই কোনো ধৰনের ভিন্নমত আজও পরিলক্ষিত হয়নি। কিন্তু তাৰ পৰেও কথা থেকে থায়। কথা থেকে থায় ঐতিহাসিক রাষ্ট্রভাষা আন্দোলনে অর্জিত বাঙালি জাতিৰ প্রথম বিজয়কে নিয়ে। বিশেষ কৰে সে আয়ৰাই সে বাঙালি জাতিই যখন বলি, ভাষা আন্দোলন হয়েছিল বলেই আমৰা মৃক্ষিযুক্ত কৰতে পেৰেছি। তাহলে দুটি বিজয়ই উভয়পূর্ণ; দুটি বিজয়ই তাৎপৰ্যবহ। এ বিষয়গুলো বুকতে হলে দুটি আন্দোলনেৰই পটভূমি সামনে রাখা প্ৰয়োজন।

এক, ১৯৭১-এ মহান মৃক্ষিযুক্ত। নয় মাসব্যাপী সংগ্রাম সংগ্রাম। অত্যন্ত কঠিন সে সংগ্রাম। অত্যাধুনিক অত্যে সজ্জিত এবং প্রশিক্ষণপ্রাপ্ত পাকিস্তানি দেনাবাহিনী এবং দেশীয় রাজাকাৰ-আলবদৰ-আলগাহাম ও শান্তি কমিটি প্রভৃতিৰ বিকলকে এক অসম শক্তাই; তদুপরি আমেৰিকা, চীন ও মধ্যপ্রাচ্যেৰ দেশগুলোৰ নেতৃত্ব-বৈষম্যিক সমৰ্থনপূর্ণ পাকিস্তানেৰ শক্তিকে থাটো কৰে দেখাৰ কোনো অবকাশ নেই।

দুই কিলু স্থানে রাখা প্রয়োজন যে ৭১-এর ২৫ মার্টের কালৰাত আসার আগে হাসব্যাপী ঐতিহাসিক অসহযোগ আন্দোলন, তাৰ আগে ৭০-এর নির্বাচনের মাধ্যমে ৬ মকা, ১১ মকার প্রতি জনগণের অকৃষ্ট রায় প্রদান ও পূর্ব বাংলার প্রায় সব আসনে আওয়ামী সীগোৱ বিজয়েন মাধ্যমে পুরো পাকিস্তানে তাদেৱ এবং বাঙালি জাতিৰ একক সংখ্যাগৱিষ্ঠতা অৰ্জনেৰ মাধ্যমে গণআন্দোলনৰ নতুন মাঝো অৰ্জন।

তিন, তাৰ আগে ৬৯-এৰ ঐতিহাসিক গণঅগ্ৰুদ্ধামেৰ মাধ্যমে এক বিশ্বৰী পটভূমি রচনা।

চাৰ, ১৯৬২ সালেৰ সামৰিক শাসনবিৰোধী আন্দোলন থেকে তক কৰে ধাৰাৰাহিক গণআন্দোলনেৰ মাধ্যমে বাঙালি জাতিৰ একক্যবৎ অবস্থানে চলে আসা।

পাঁচ, সৰ্বোপৰি ৭১-এ মুক্তিক তক হওয়াৰ পৰ ইন্দিৰা গাঁওৰ নেতৃত্বাধীন ভাৰত সরকাৰেৰ বাংলাদেশেৰ মুক্তিযুদ্ধেৰ প্রতি সাৰ্বিক সমৰ্থন প্রায় লক্ষণিক মুক্তিযোৱাকে সামৰিক প্রলিপ্তি প্রদান ও ভাৰতীয় সেনাবাহিনী এবং বাংলাদেশেৰ মুক্তিবাহিনী মিলে যৌথ যুদ্ধবাহিনী গঠন কৰায় সামৰিক অৰ্পে এ মুক্তিযুদ্ধেৰ নতুন মাঝো অৰ্জন; ১ কোটি বাঙালি যারা দেশত্যাগে বাধা হৰেছিল তাদেৱ আপোয়, খাদ্য, চিকিৎস প্ৰতিব পূৰ্ণ সামৰ্থ্য পালন কে অভাৱনীয় অনুকূল পটভূমি রচনা কৰে; তদনীন্তন সোভিয়েত ইউনিয়নেৰ নেতৃত্বাধীন সংযুক্তভাৱে বিশ্বে অকৃষ্ট নৈতিক ও বৈষয়িক সমৰ্থন, সময় বিশ্বেৰ গণতন্ত্ৰ ও শাৰীৰনাতকীয় মানবেৰ নৈতিক সমৰ্থন ও আন্তৰ্জাতিক মিডিয়াৰ অকল্পনীয় সমৰ্থ এ মুক্তিযুদ্ধকে এক সুনিচিত বিজয়েৰ দিকে এগিয়ে দিতে সমৰ্থ হয়; অবশেষে আমৰা বিজয় অৰ্জন কৰি; বাঙালি মুক্তিৰ আনন্দে উঞ্জনি হয়ে ওঠে; এই ছিল সংক্ষেপে ৭১-এৰ নয় মাসেৰ মুক্তিযুদ্ধেৰ সংক্ষিপ্ত পটভূমি।

IV. Solve the following problems:

- 1) A basket ball team has won 15 games and lost 9. If these games represent $16 \frac{2}{3}$ percent of the games to be played. Then how more games must the team win to average 75 percent for the season ?

Answer:

win = 15

lost = 9

Total = 24 games

$$16\frac{2}{3} \% = \frac{50}{3} \% = \frac{3}{100} = \frac{50}{3} \times \frac{1}{100} = \frac{1}{6}$$

According to the question,

$\frac{1}{6}$ represent = 24 games

So, total or 1 represent = $24 \times 6 = 144$ games

To win average 75% in seen

In 100 game team must win 75 game

\therefore In 144 game team must win $\frac{75 \times 144}{100} = 108$ game

Already win = 15 games

So, more game must be win = $(108 - 15) = 93$ games. Ans.

- 2) A person earns yearly interest of Tk. 920 by investing Tk. X at 4% and Tk. Y at 5% simple interest rate. If he had invested Tk. X at 5% and Tk. Y at 4% simple interest rate, then his yearly interest earning would have been reduced by Tk. 40. Find out the amount of X and Y.

Answer:

$$\text{We know, } P = \frac{I \times 100}{t \times r}$$

$$\therefore I = \frac{Prt}{100}$$

$$\text{at 4\% rate, } I = \frac{x \cdot 4}{100} = \frac{x}{25} \text{ Tk.}$$

$$\text{at 5\% rate, } I = \frac{5y}{100} = \frac{y}{20} \text{ Tk.}$$

According to the question,

$$\frac{x}{25} + \frac{y}{20} = 920$$

$$\Rightarrow \frac{4x + 5y}{100} = 920$$

$$\Rightarrow 4x + 5y = 920 \times 100 \quad \text{(i)}$$

$$\text{Again, at 5\% rate, } I = \frac{5x}{100} = \frac{x}{20} \text{ Tk.}$$

$$\text{at 4\% rate, } I = \frac{4y}{100} = \frac{y}{25} \text{ Tk.}$$

$$\text{Total invest} = \frac{x}{20} + \frac{y}{25} = \frac{5x + 4y}{100}$$

According to the question,

$$\frac{5x + 4y}{100} = 920 - 40$$

$$\Rightarrow 5x + 4y = 880 \times 100 \quad \text{(ii)}$$

Now, (i) - (ii) \Rightarrow

$$4x + 5y = 920 \times 100$$

$$\underline{5x + 4y = 880 \times 100}$$

$$y - x = 4000$$

$$\therefore y = 4000 + x \quad \text{(iii)}$$

(i) \Rightarrow

$$4x + 5y = 92000$$

$$\Rightarrow 4x + 5(4000 + x) = 92000$$

$$\Rightarrow 4x + 20000 + 5x = 92000$$

$$\Rightarrow x = \frac{72000}{9}$$

$$\therefore x = 8000 \text{ Tk.}$$

(iii) \Rightarrow

$$y = (4000 + 8000) = 12000 \text{ Tk.}$$

$$\therefore x = 8000 \text{ Tk. \& } y = 12000 \text{ Tk. Ans.}$$

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১. 'আইন-ই-আকবর' কার লেখা গ্রন্থ?

- ফেরদৌসী
- গালিব
- **আবুল ফজল**
- সৈয়দ হামজা
- আলাওল

২. লোকসাহিত্য কাকে বলে

- গ্রামীণ নরনারীর প্রণয় সংবলিত উপাখ্যানকে
- লোক সাধারণের কল্যাণে স্তুতিমূলক রচনাকে
- **লোকের মুখে মুখে প্রচলিত কাহিনী, গান, ছড়া ইত্যাদিকে**
- গ্রামের অশিক্ষিত ও অখ্যাত লোকের সৃষ্টি রচনাকে
- ধর্মীয় উপাখ্যানকে

৩. ভাষা আন্দোলনের ফলে কোন প্রতিষ্ঠান সৃষ্টি হয়েছিল?

- ঢাকা বিশ্ববিদ্যালয়
- **বাংলা একাডেমি**
- এশিয়াটিক সোসাইটি
- নজরুল ইনসিটিউট
- শিল্পকলা একাডেমি

৪. কোনটি হ্যরত মুহাম্মদ (স) - এর জীবনী গ্রন্থ?

- মরুমায়া
- **মরু-ভাস্কর**
- মরুতীর্থ
- মরুকুসুম
- মরুদুলাল

৫. কোন বাঙালি নাট্যকার বাংলা নাটকের পথিকৃৎ?

- মাইকেল মধুসূদন দত্ত
- দীনবন্ধ মিত্র
- রবীন্দ্রনাথ ঠাকুর
- গিরিশচন্দ্র ঘোষ
- **তারাচরণ সিকদার**

৬. 'তিনটি বছর'- এখানে তিনটি কোন পদ?

- বিশেষণ
- **বিশেষ্য**
- অব্যয়

➤ ক্রিয়া

➤ সর্বনাম

৭. ‘দহন’ শব্দের বিশেষণ নির্দেশ কর-

➤ দাহ্য

➤ দঞ্চ

➤ দহনকারী

➤ দহনীয়

➤ খ+ঘ

৮. ইচ্ছা শব্দের বিশেষণ নির্দেশ কর-

➤ ইচ্ছাময়

➤ ঐচ্ছিক

➤ ইচ্ছুক

➤ অনিচ্ছা

➤ খ+গ

৯. সুন্দর মাত্রেরই একটা আকর্ষণ শক্তি আছে- এই বাক্যে ‘সুন্দর’ শব্দটি কোন পদ

➤ বিশেষ্য

➤ বিশেষণ

➤ বিশেষ্যের বিশেষণ

➤ বিশেষণের বিশেষণ

➤ ক্রিয়া বিশেষণ

১০. কোনটি ‘কন্যা’ শব্দের অর্থ নয়?

➤ তনয়া

➤ অলক

➤ নন্দিনী

➤ আত্মজা

➤ দ্রুহিতা

১১. ‘নির্বক্ষ’ ও ‘প্রথিত’ শব্দদ্বয়ের অর্থ যথাক্রমে

➤ বিধান, বিখ্যাত

➤ আগ্রহ, প্রথা অনুসারে

➤ নিবিড়, পার্থিব

➤ উপযোগী, প্রার্থনা

➤ আইন, উপযোগী

১২. কোন প্রবচনটি উভয়কুল রক্ষা অর্থে ব্যবহৃত?

➤ কাঠো পৌষ মাস, কারও সর্বনাম

➤ চাল না চুলো, টেঁকী না কুলো

➤ সাপও মরে লাঠিও না ভাঙ্গে

➤ বোঝার উপর শাকের আঁটি

- ছাই ফেলতে ভাঙা কুলো

১৩. কোনটি শুন্দি?

- সৌজন্যতা
- সৌজন্যতা
- সৌজন্য
- **সৌজন্য**
- সৌজন্য

১৪. কোন বানানটি শুন্দি?

- সূচিষ্মিতা
- সূচিষ্মীতা
- সূচিষ্মিতা
- **শুচিষ্মিতা**
- শুচিষ্মীতা

১৫. 'ঘদি হয় সুজন, তেঁতুল পাতায় ন জন'- প্রবচনটির অর্থ কি?

- সুজনেরা তেঁতুল পছন্দ করে
- সামান্য কিছু নিয়ে ঝগড়া করা
- **মিলে মিশে কাজ করলে অসম্ভবকে সম্ভব করা যায়**
- সজনে ডাটায় নুন জোটেনা, মশুর ডালে ঘি
- যাহা বাহান তাহা তেক্ষণ

১৬. উন্নীত শব্দের বিপরীতার্থক শব্দ কি?

- বিনীত
- **অবনমিত**
- অবনতি
- অধোগতি
- অবনমন

১৭. 'তুমি আসবে বলে হে স্বাধীনতা'- কার রচনা?

- কাজী নজরুল ইসলাম
- বেগম সুফিয়া কামাল
- রোকনুজ্জামান খান
- **শামসুর রাহমান**
- শহীদ কাদরী

১৮. 'দেওয়ানী মদিনা' কোন কাব্যের অন্তর্গত?

- মধ্যযুগের গীতি কবিতা
- পূর্ববঙ্গ গীতিকা
- নাথ গীতিকা
- **ময়মনসিংহ গীতিকা**
- কাজল রেখা

১৯. 'ধর্মের কল বাতাসে নড়ে' অর্থ বৈশিষ্ট্যের দিক থেকে কোন ধরনের প্রবাদ?

- সাধারণ অভিজ্ঞতা বাচক
- **নীতিকথামূলক**
- ইতিকথা মূলক
- মানব চরিত্র সমালোচনামূলক
- সামাজিক রীতিনীতি জ্ঞাপক

২০. 'চার্ল' ও 'অমল' চরিত্রদ্বয় রবীন্দ্রনাথ ঠাকুরের কোন ছোট গল্লের চরিত্র?

- একরাত্রি
- জীবিত ও মৃত
- সমাপ্তি
- **নষ্টনীড়**
- হৈমন্তী

English

1. Underscore:Emphasis

- Eradicate:Destruction
- **Stigmatize:confrontation**
- Quantify:Assessment
- Brand:Ownership
- Log:Record

2. Ostrich :Bird

- Caterpillar:Moth
- Lizard:frog
- bud:Leaf
- **tiger:Cat**
- Gust:Storm

3. Practicing;Expertise

- Thinking:Logic
- Writing:Clarity
- Growing:Heath
- **Expertising:Strength**
- Eating:Nutrition

4. Forgery:Counterfeit

- Duplicity:Testimony
- Arson:Insurance

- Embezzlement:Fraud
- Theft:Punishment
- Murder:Life

Find the opposite word(5-7)

5. Ruthless

- Mindful
- Compassionate
- Hostility
- Merciful
- Loyal

6. Parallelsim

- Obliquity
- Contrast
- Disparity
- Divergence
- Similarity

7. Endorse

- Provoke criticism
- Receive payment
- Submit unwillingly
- Oppose publicly
- Perform quickly

8. It is -----for every tax payer to -----the tax return to the income tax department.

- necessary,lodge
- binding,pay
- obligatory,submit
- possible,remit
- worhwhile:evade

9. The -----words of the mother comfortable the -----child.

- harsh,naughty
- sweet,happy
- soft,energetic
- melodious,playful
- soothing,disappointed

10. The great scientist -----himself with ability and moderation all ----- the conference .

- felt,about

- displayed,in
- disclosed,besides
- conducted,through
- **presented,through**

11. In a word -----by men for so many years, women are only thought ----- for jobs like typist,receptionist and teachers.

- created,suitable
- governed,qualified
- controled,eligible
- dominated,competent
- **ruled,fit**

12. Identify the incorrect part of the sentence : If it had not been for the computerized register tape from the grocery store, I never would have been able to figure on my expenditure.

- had not been
- from the grocery
- would have been
- **figure on**
- no error

13. Identify the incorrect part of the sentence : Being that he was a good swimmer, Mir jumped into the water and rescued the drowning child.

- **that he was**
- into
- rescued
- drowning
- no error

14. Identify the incorrect part of the sentence : Today the number of people which enjoy winter sports is almost double that of twenty years ago.

- the number
- **which**
- is
- that
- no error

15. Identify the incorrect part of the sentence : Copper is a metal which is easily worked and which mixes well with other metals to form alloys.

- which
- easily
- mixes

- other
- no error

Math

3. Of 30 applicants for a job, 14 had at least 4 years experience, 18 had degrees, and 3 had less than 4 years experience and did not have a degree. How many of the applicants had at least 4 years experience and a degree ?

- 14
- 13
- 9
- 7
- 5

4. Laboni bought a 1-year, Tk 10,000 certificate of deposit that paid interest at an annual rate of 8 percent compounded semiannually. What was the total amount of interest paid on this certificate at maturity ?

- Tk, 10,464
- Tk, 864
- Tk, 816
- Tk, 800
- Tk, 480

5. At the rate of m meters per s seconds, how many meters does a cyclist travel in x minutes ?

- m/sx
- mx/s
- $60m/sx$
- $60ms/x$
- $60mx/s$

6. The present ratio of students to teachers at a certain school is 30 to 1. If the student enrollment were to increase by 50 students and the number of teachers were to increase by 5, the ratio of students to teachers would then be 25 to 1. What is the present number of teachers ?

- 5
- 8
- 10
- 12
- 15

7. If two non-zero positive integers p and q are such that $p=4q$ and $p<8$, then $q=$?

- 1
- 2
- 3
- 4
- 5

↳ A certain river has a current of 3 miles per hour. A boat takes twice as long to travel upstream between two points as it does to travel downstream between the same two points. What is the speed of the boat in still water ?

- 3 miles per hour
- 6 miles per hour
- 9 miles per hour
- 12 miles per hour
- The speed cannot be determined from the given information

q. If the volume of a cube is 27 cubic meters, find the surface area of the cube .

- 9 square meters
- 18 square meters
- 54 square meters
- 3 square meters
- 1 square meters

br. The cost, in taka, of manufacturing x microwaves is $6000+300x$ Taka. The amount received when selling these x microwaves is $700x$ taka. What is the least number of microwaves that must be manufactured and sold so that the net profit is Tk 2400 ?

- 15
- 17
- 19
- 21
- 23

↳ The larger of two numbers exceeds twice the smaller number by 9. The sum of twice the larger and 5 times the smaller number is 74. If a is the smaller number, which equation below determines the correct value of a ?

- $5(2a+9)+2a = 74$
- $5(2a-9)+2a = 74$
- $(4a+9)+5a = 74$
- $2(2a+9)+5a = 74$
- $2(2a-9)+5a = 74$

so. Find the probability of selecting a prime number from a set numbers 1 to 15 (both inclusive)

- 1/15

- 3/5
- **2/5**
- 7/15
- 1/5

55. If the annual expenditure of family A on health is x and that of family B is y, then which of the following relations is true ?

- $x=2y$
- $x=y$
- **$5x=4y$**
- $3x=2y$
- $4x=3y$

GK

5. How many times Rafael Nadal has won the 'French Open' in Tennis ?

- 4
- 3
- 5
- 6
- **8**

6. The headquarter of United Nations Conference on Trade and Development (UNCTAD) is located at which of the following places ?

- **Geneva**
- Rome
- Paris
- Vienna
- Brussels

7. The capital city and the currency of Poland are respectively

- Warsaw, Euro
- Poznan, Euro
- Lublin, Zloty
- Katowice, Zloty
- **Warsaw, Zloty**

8. Anne Frank wrote her world-famous diary during the Second World War hiding in

- Germany
- **Holland**

- England
- Poland
- Austria

⌚. Ozone depletion is caused by

- Carbon monoxides
- Carbon dioxide
- **Chlorofluorocarbon**
- Mercuric Oxide
- Ethylene

⌚. Which of the following is world's top retailer ?

- **Wal-Mart (USA)**
- Carrefour(France)
- Reliance (India)
- Kroger (USA)
- Aeon co. Ltd. (Japan)

⌚. What is 'Super 301' ?

- Name of a modern computer
- A new variety of wheat
- **American Trade Law**
- A new vaccine for AIDS
- A racing competition

⌚. A Biologist specializing in the study of insects is called

- an herpetologist
- a paleontologist
- **an entomologist**
- an ornithologist
- an ichthyologist

⌚. 'Greenback' is the popular name of which country's currency ?

- Norway
- Switzerland
- Newzeland
- U.K.
- **U.S.A.**

⌚. The most ancient historical place of Bangladesh is

- Paharpur
- **Mohasthangarh**
- Sonargaon

- Moynamoti
- Bikrampur

১১. If Ram lives on the first floor, then Sham lives on the second. Sham does live on the second floor.

Therefore

- Ram does not live on the first floor.
- Ram may or may not live on the first floor
- **Ram lives on the first floor**
- Ram lives on the second floor
- None of the above results can be deduced

১২. Which set of numbers is like the given set [48,24,12] ?

- [46,22,11]
- [44,22,10]
- [42,20,10]
- **[40,20,10]**
- [20,5,2]

BASIC Bank Ltd - Assistant Officer(Cash) - 2014

১. বাংলা ভাষা কোন শব্দ দুটি গ্রহণ করেছে চীনা ভাষা হতে?

- চাকু, চাকর
- খদর, হরতাল
- **চা, চিনি**
- রিঙ্গা, রেঙ্গেরা

২. "বাঙালীর ইতিহাস" বইটির লেখক কে?

- **নীহার়ঞ্জন রায়**
- আর.সি. মজুমদার
- আবদুল কাদির
- সুনীতি কুমার চট্টোপাধ্যায়

৩. ভাষায় সর্বনামের ব্যবহারের উদ্দেশ্য কি?

- বিশেষনের পরে ব্যবহার করা
- **বিশেষ্যের পুনরায়বৃত্তি দূর করা**
- বিশেষ্যের অভাব দূর করা
- ভাষায় শব্দ সম্পদ বৃদ্ধি করা

৪. "কর্ম ভোগ এড়ানো যায় না"- এখানে 'কর্ম' কোন অর্থ প্রকাশ করেছে?

- গেশা

- অনুষ্ঠান
- **কৃতকর্ম**
- কর্তব্য

৫. কর্মে ক্লান্তি নাই- এই বাক্যের সংক্ষিপ্ত রূপ কি

- ক্লান্তিহীন
- **অক্লান্ত**
- অক্লান্ত কর্মী
- অবিশ্রাম

৬. "ঢাকের কাঠি" বাগধারাটির অর্থ কি?

- সাহায্যকারী
- **তোষামুদে**
- বাদক
- স্বাস্থ্যহীন লোক

৭. "তুমি এতক্ষন কি করেছো?" এই বাক্যে "কি" কোন ধরনের পদ?

- বিশেষন
- **অবয়**
- সর্বনাম
- ক্রিয়া

৮. কোন গ্রন্থটি রাজা রাম মোহন রায়ের রচনা নয় ?

- **বেদান্ত চন্দ্রিকা**
- বেদান্ত গ্রন্থ
- বেদান্ত সার
- পথ্য প্রদান

৯. ফোর্ট উইলিয়াম কলেজের বাংলা বিভাগের প্রথম প্রধান কে ছিলেন?

- মি. উইলিয়াম
- **উইলিয়াম কেরি**
- রামরাম বসু
- জেসি মার্সম্যান

১০. সন্ধির প্রধান সুবিধা কি?

- **উচ্চারনের সুবিধা**
- লেখার সুবিধা
- শোনার সুবিধা
- পড়ার সুবিধা

English

1. Although he is recognized as one of the most brilliant scientist in his field, professor white cannot seem to "make his ideas understood" in class. (Choose the best alternative that replaces quoted words)

- **get his ideas down**
- recall his ideas
- summarize his ideas
- get his idea across

2. To "look quickly through" a book is an important study skill. (Choose the best alternative that replaces quoted words)

- **Skim**
- Summarize
- Outline
- Paraphrase

3. Einstein's theory of relativity seemed "incredibly" at the time that he first introduced it. (Choose the best alternative that replaces quoted words)

- **Unbelievable**
- Complicated
- Brilliant
- Famous

4. It is difficult to "discern" the sample that is on the slide unless the microscope is adjusted. (Choose the best alternative that replaces quoted words)

- discard
- arrange
- **determine**
- debate

5. The "remnants" of the Roman Empire can be found in many countries in Asia, Europe and Africa. (Choose the best alternative that replaces quoted words)

- effects
- **small pieces**
- buildings
- destruction

6. Mumps "are" a very "common" "disease" "which" "usually" affect children. (Find out which underlined part of the following sentences has an error)

- **A**
- B
- C
- D

7. The leader emphasized "the need" "for" "justice" and equality "between" his "people". (Find out which Quoted part of the following sentences has an error)
- A
 - B
 - C
 - D
8. Mehrab is one of "the" "most" intelligent boys "of" the "science" class. (Find out which Quoted part of the following sentences has an error)
- A
 - B
 - C
 - D
9. I do not know where "could" "he" have "gone" so "early" in "the" morning. (Find out which Quoted part of the following sentences has an error)
- A
 - B
 - C
 - D
10. Malnutrition "is a major" cause of death in "those countries" where the cultivation of rice "have" been impeded "by recurrent drought". (Find out which Quoted part of the following sentences has an error)
- A
 - B
 - C
 - D
11. To Smell the rat (Choose the one which best express the meaning of the given idiom)
- To detect a bad smell
 - To misunderstand
 - To suspect a trick or deceit
 - To see hidden meaning
12. To take a leap in the dark- (Choose the one which best express the meaning of the given idiom)
- To take risk
 - To hazard oneself
 - Take a leap
 - To do hazardous thing without any idea of result
13. To get into hot waters- (Choose the one which best express the meaning of the given idiom)
- To be impatient

- To suffer huge financial loss
- **To get into trouble**
- To be in a confused state of mind

14. To be in abeyance - (Choose the one which best express the meaning of the given idiom)

- To be in trouble
- Dual minded
- In a fighting mood
- In suspense

Math

3. 1-1-2-3-5-8-13 what number should come next in the series?

- 15
- **21**
- 26
- 31

4. If you rearrange the letters "LNGEDNA" you have name of a(n)-

- **Country**
- Animal
- City
- Ocean

5. Ralph likes 25 but not 24; he likes 400 but not 300; he likes 144 but not 145.Which does he likw-

- 10
- 50
- 200
- **1600**

6. If 194 means AID, BEFF means what?

- 2254
- 2256
- 2846
- **None of these**

7. Father is aged 3times more than his son Ronit. After 8years, he would be two and a half times of Roni's age. After further 8years,how many times would he be of Ronit's age?

- **2times**
- 2.5times
- 3.5times

➤ 3times

↳ The average age of husband,wife and their child 3years ago was 27 years and that of wife and the child 5years ago was 20years.The present age of husband is :

➤ 35years

➤ **40years**

➤ 45years

➤ 50years

q. how many 3digit numbers can be formed from digits 2,3,5,6,7 and 9 divisible by 5 and none of the digits is repeated?

➤ **5**

➤ 10

➤ 15

➤ 20

↳ If one third of one fourth of a number is 15, the three-tenth of that number is-

➤ 35

➤ 36

➤ 45

➤ **56**

↳ How many seconds will a 500 metre long train take to cross a man walking with a speed of 3km/hr in the direction of the moving train if the speed of the train is 63km/hr?

➤ 25

➤ **30**

➤ 40

➤ 45

↳ A man walks at a rate of 10mph.After every ten miles, he rest for 6minutes. How much time does he take to walk 50miles?

➤ 300

➤ 318

➤ 322

➤ **324**

↳ If 50% of x equals the sum of y and 20, then what is the value of $x-2y$?

➤ 20

➤ **40**

➤ 60

➤ 80

↳ If $x>5$ and $y<-1$, which of the following statements is true?

➤ $(x+4y)>1$

- $x > -4y$
- $-4x < 5y$
- None of these

GK

3. The sonakanda fort situated in which district?

- Munshiganj
- Hajigonj
- Narayangonj
- Kushtia

4. Which district was first set free enemy during the liberation war of Bangladesh?

- B.Baria
- jessore
- Sylhet
- Dhaka

5. BAdminton is the national sports of -

- Scot land
- China
- Malaysia
- Nepal

6. Which of the following eco system covers the largest area of earth surface?

- Desert ecosystem
- Mountain ecosystem
- Fresh water ecosystem
- Marine ecosystem

7. The architect of shaheed minar-

- Joynul Abedin
- Hamidur Rahman
- Hashem Khan
- kamrul hasan

8. Who was the first editor of bangla literary magazine "bangadharshan"?

- Pari Chad mitra
- Bankim Chandra Chattopadhyay
- Akshay kumar datta
- Promoth chowdhury

q. Leonardo di vinci, famous for his master pieces painting "mona lisa" was a/an-

- French artist
- German painter
- **Itaalian artist**
- None of these

br. Where do most of the Manipuri ethnnic group people live in Bngladesh?

- Mymensingh
- **Sylhet**
- Cox's Bazar
- Rangamati

bs. The first parliamentary election in Bangladesh was hled in-

- 1972
- **1973**
- 1975
- 1976

so. Mother teresa was born in-

- England
- India
- **Albania**
- Germany

ss. The book "the glimpse of world history" was written by-

- Rabindro nath Tagore
- Thomas Carlyle
- **Jawahralal Neharu**
- Karl Marx

ss. Sachin tendulkar made his test debut in-

- 1987
- 1988
- **1989**
- 1999

so. When you start your computer then which component works first ?

- BIOS
- **Processor**
- Hard Disk
- RAM

ss. The documentary film "Stop genocide" related to independence war of Bangladesh was directed by-

- Khan Ataur Rahman

- Zahir Rahman
- Munir Chowdhury
- Selim Ad-Din

১৫. The head office of which regional/international organizational is located in Dhaka?

- SAARC
- CIRDAP
- ADB
- APEC

Probashi Kallyan Bank - Executive Officer - 2017

১. নিচের কোনটি বিভূতিভূষণ বন্দ্যোপাধ্যায়ের উপন্যাস?

- যাত্রাদল
- মৌরিফুল
- মেঘমাল্লার
- **আরণ্যক**

২. 'এক পয়সার বাঁশি' কাব্যের রচয়িতা কে?

- কাজী নজরুল ইসলাম
- **জসীমউদ্দীন**
- কায়কোবাদ
- রবীন্দ্রনাথ ঠাকুর

৩. 'মুসাফির' কোন ভাষার শব্দ?

- **আরবি**
- ফারসি
- হিন্দি
- তুর্কি

৪. লালসালু কোন ধরনের উপন্যাস?

- আঞ্চলিক
- **সামাজিক**
- ঐতিহাসিক
- আধ্যাত্মিক

৫. কবি শামসুর রাহমানের জন্ম কত সালে?

- ১৯২৭
- **১৯২৯**
- ১৯২৮

➤ ১৯৩০

৬. বাংলা সাহিত্যে চলিত রীতির প্রবর্তক কে?

- ঈশ্বরচন্দ্র বিদ্যাসাগর
- রবীন্দ্রনাথ ঠাকুর
- **প্রমথ চৌধুরী**
- প্যারীচাঁদ মিত্র

৭. বাংলা সাহিত্যের প্রাচীন নির্দশন কোনটি?

- মহাভারত
- রামায়ণ
- জঙ্গনামা
- **চর্যাপদ**

৮. কোন জাতীয় শব্দে 'ষ' ব্যবহার হয় না?

- তৎসম
- সংস্কৃত
- **বিদেশি**
- তৎভব

৯. শব্দের আগে কোনটি বসে?

- **উপসর্গ**
- অনুসর্গ
- প্রত্যয়
- বিভক্তি

১০. কাজী নজরুল ইসলাম রচিত প্রথম কবিতার নাম কি?

- বিদ্রোহী
- ছাড়পত্র
- রাখালী
- **মুক্তি**

১১. শিক্ষক + কন মিলে কি হবে?

- **শিক্ষণ**
- শিক্ষক
- শিক্ষকন
- শিক্ষন

১২. 'তুলসি বনের বাঘ' মানে কী?

- কুড়ে
- ভীতু
- রোগা
- **ভণ্ড**

১৩. সমজাতীয় একাধিক পদ পরপর থাকলে কি চিহ্ন বসে ---

- কোলন
- সেমিকোলন
- হাইফেন
- **কমা**

১৪. যে ধরনের বাক্যে অনুরোধ, আদেশ, আশীর্বাদ ইত্যাদি প্রকাশ পায় তাকে কী বলে?

- বিস্ময়বোধক বাক্য
- বিবৃতিমূলক বাক্য
- জিজ্ঞাসাবোধক বাক্য
- **অনুজ্ঞাবাচক বাক্য**

১৫. কোন বানানটি শুন্ধ?

- আবিষ্কার
- পিচাস
- পরিষ্কার
- **পরিষ্কার**

১৬. 'বৈদঞ্চ' শব্দটির অর্থ হলো ---

- জ্ঞান
- বৈয়াকরণিক
- **পাণ্ডিত্য**
- দার্শনিক

১৭. 'ন্যায়পাল' এর ইংরেজি শব্দ কি?

- **Ombudsman**
- Omnibus
- Justice
- Ombusman

১৮. 'অধ্যাদেশ' এর ইংরেজি প্রতিশব্দ কি?

- Ordain
- Order
- **Ordinance**
- Law

১৯. Excise duty এর বাংলা কি?

- অতিরিক্ত কর
- অতিরিক্ত দায়িত্ব
- অর্পিত দায়িত্ব
- **আবগারি শুক্র**

২০. বিশ্বজনের হিতকরা এক কথায় কি হবে?

- বিশ্বহিতৈষী
- **বিশ্বজনীন**

- বিশ্বস্তব্র
- বিশ্বমিত্র

English

1. Find the correct spelt word from the following ----

- Reannaisance
- Renaissance
- **Renaissance**
- Rennaissance

2. Which one of the following is the synonym of 'Propel'?

- Modify
- Jettison
- Burst
- **Drive**

3. Choose the correct sentence-

- I shall set up for Dhaka.
- **I shall set out for Dhaka.**
- I shall set in for Dhaka.
- I shall set upon for Dhaka.

4. Which one of the following is opposite to the word 'facilitate'?

- **Hinder**
- Forward
- Stop
- Throw

5. Fill in the gap with appropriate word : We should never cut -----relationship with our friends.

- down
- of
- up
- **off**

6. Fill in the gap with appropriate word : In the morning, I prefer coffee -----tea.

- than
- for
- **to**
- from

7. The antonym of 'recollect' is ---

- forget
- misplace
- compromise
- settle

8. What do you mean by a 'herculean job'?

- A very interesting job
- A very easy job
- A very comfortable job
- A very difficult job

9. What is the Bengali meaning of the word 'innovation'?

- আবিষ্কার
- উভাবন
- অনুসন্ধান
- সৃষ্টি

10. What is the antonym of 'acquaintance'?

- Hostile
- Indifferent
- Ignorance
- Familiar

11. Choose the correct Bengali translation of 'Hit while the iron is hot'.

- ঝঁপ বুরো কোপ মাৱ
- গৱম লোহায় আঘাত কৱা
- ওজন বুৰো চলা
- মাথা গৱম কৱা

12. Select the appropriate preposition ---'He is quick -----figures'.

- for
- about
- of
- at

13. Fill in the blank with appropriate word : She availed herself ----the opportunity.

- for
- of
- with
- from

14. Find out the correctly spelt word ----

- Santimoneous
- Sactimonious

➤ Sanctimonious

➤ Sanctemonious

15. Find the correct meaning of the quotation words ----Show "allegiance" to your master.

➤ Subject

➤ Obligation

➤ Loyalty

➤ Servant

16. Correct the sentence : "Whoever objects to me" going to the convention ought to state has position promptly.

➤ Whoever objects to me

➤ Whomever objects to me

➤ Whomever objects to my

➤ **Whoever objects to my**

17. What the meaning of "hard and fast"?

➤ বাঁধাধৰা

➤ নিয়মমত

➤ ঠিকমত

➤ ভালোভাবে

18. Choose the correct sentence-

➤ I wish I were them!

➤ **I wish I were he!**

➤ I wish I were his!

➤ I wish I were him!

19. Translate into Bengali ----"Silver tongue".

➤ ৱৰ্ণকথা

➤ ভালো কথা

➤ **মিষ্টভাষী**

➤ ৱৰ্ণার কথা

20. Translate into English ---"আমৰা রওনা হতে না হতেই বৃষ্টি হয়েছিল"----

➤ Rain begins as we started.

➤ No sooner had we set out then it started raining.

➤ Sooner we begins, the rain started.

➤ **No sooner had we set out than it started raining.**

Math

১. একজন বিনিয়োগকারী ২৫০০ টাকার কিছু অংশ ৫% ও বাকি অংশ ৬% লাভে বিনিয়োগ করেছেন। তিনি বছর শেষে ৮০ টাকা আয় করে থাকলে ৫% লাভে বিনিয়োগের পরিমাণ কত?

- ৬০০০ টাকা
- ৯০০০ টাকা
- ৮০০০ টাকা
- ৭০০০ টাকা

২. যদি $\frac{2}{x} = 8$ এবং $\frac{2}{y} = 8$ হয় ($x-y$) = কত?

- ১/৮
- ১/৮
- ৩/৮
- ৮

৩. প্রদত্ত সিরিজের পরবর্তী সংখ্যাটি কত? ১, ১, ২, ৩, ৫, ৮, ১৩, ----?

- ১৮
- ২০
- ২৩
- ২১

৪. যদি একটি সংখ্যার $\frac{5}{15}$ অংশ ১০ এর সঙ্গে যোগ করলে হয় ২৮। সংখ্যাটি কত?

- ৫৬
- ৫৪
- ১১৪
- ১৫০

৫. ৮ জন ছাত্রছাত্রীর গড় বয়স ৮ বছর। যদি শিক্ষকের বয়স অন্তর্ভুক্ত করা হয় তা হলে গড় ৭ বছর বাঢ়বো। শিক্ষকের বয়স বের কর?

- ৭১ বছর
- ৮৫ বছর
- ৫০ বছর
- ৫৫ বছর

৬. নিচের কোনটি সবচেয়ে বড়?

- $12/17$
- $11/18$
- $5/8$
- $15/20$

৭. ২% এর ভগ্নাংশ কত?

- $1/20$
- $1/25$
- $1/50$
- $1/75$

৮. যদি ১০০০ টাকার উপর ৬ মাসে লাভ হয় ৬০ টাকা, তবে লাভের শতকরা হার কত?

- ৬%

➤ ১২%

➤ ৭%

➤ ৯%

৯. বার্ষিক শতকরা ৭% হারে লাভে কত টাকা জমা দিলে ১৮ মাস পরে ১০০০ টাকা হবে?

➤ ৯০৩.৯৫ টাকা

➤ ৯০৪ টাকা

➤ ৯০৪.৯৮ টাকা

➤ ৯০৪.৫৮ টাকা

১০. প্রথম পাঁচ সংখ্যার নিয়মিত ধারাবাহিকতা হল ৪, ১০, ২২, ৪৬ এবং ৯৪। পরবর্তী সংখ্যাটি কত?

➤ ১৯০

➤ ১৭৬

➤ ১৮২

➤ ১৫৪

১১. যদি একটি মেশিনের একটি পণ্য উৎপাদনে ১/২ মিনিট সময় লাগে, তবে ২ ঘন্টায় কয়টি পণ্য উৎপাদন করতে পারবে?

➤ ২৪০

➤ ৬০

➤ ৮০

➤ ৯০

১২. ৩ জন জেলে মিলে ৮৮০ টি মাছ ধরেছে। তাদের অংশের অনুপাত ২ : ৪ : ৫ হলে কে কত মাছ পেল?

➤ ১২০, ২৪০, ৩০০

➤ ৬০, ২৪০, ৩৬০

➤ ১২০, ১৮০, ৩৬০

➤ ১৬০, ৩২০, ৮০০

১৩. একটি বইয়ের মূল্য ২৪ টাকা, যা প্রকৃত মূল্যের ৮০%। বাকী মূল্য সরকার ভর্তুকির দিলে তার পরিমাণ কত?

➤ ৬ টাকা

➤ ১০ টাকা

➤ ১২ টাকা

➤ ৭ টাকা

১৪. একটি বাঞ্চের দৈর্ঘ্য ৪ মিটার, প্রস্থ ২ মিটার এবং উচ্চতা ১ মিটার। বাঞ্চটির আয়তন কত?

➤ ৮ ঘনমিটার

➤ ৬ ঘনমিটার

➤ ৫ ঘনমিটার

➤ ৭ ঘনমিটার

১৫. বার্ষিক ১০% মুনাফায় কত বছরে ১০,০০০ টাকার মুনাফা ৬,০০০ টাকা হবে?

➤ ৭ বছর

➤ ৬ বছর

- ৫ বছর
- ৪ বছর

১৬. যদি কিউব-ক এর সাইড ও কিউব-খ এর সাইডের অনুপাত $2 : 1$, তা হলে এর তল দুটির অনুপাত কত?

- $1 : 2$
- $2 : 1$
- **৪ : ১**
- $3 : 1$

GK

১. পায়রা সমুদ্র বন্দরের অবস্থান কোথায়?

- চট্টগ্রাম
- পাবনা
- বরিশাল
- **পটুয়াখালি**

২. জাতিসংঘের বর্তমান সদস্য রাষ্ট্র কয়টি?

- ১৯৩
- ১৯০
- ১৭৫
- ২০০

৩. বিবিএস এর সূত্র অনুযায়ী বাংলাদেশে বর্তমান দারিদ্রের হার কত?

- ২০%
- **২৪.৩%**
- ২৫%
- ২৩.৩%

৪. সবচেয়ে ক্ষুদ্র গ্রহ কোনটি?

- বৃহস্পতি
- **মঙ্গল**
- প্লটো
- ইউরেনাস

৫. বাংলাদেশের কোন জেলা আসামের অন্তর্গত ছিল?

- **সিলেট**
- চট্টগ্রাম
- রংপুর
- মৌলভীবাজার

৬. কাতালোনিয়া কোন দেশের শাসন থেকে মুক্তি চেয়েছে?

- ইতালি
- **স্পেন**

- ফ্রাঙ
- জার্মানি

৭. প্যারিস জলবায়ু চুক্তি থেকে কোন দেশ নিজেকে সরিয়ে নিয়েছে?

- যুক্তরাজ্য
- ফ্রাঙ
- **যুক্তরাষ্ট্র**
- চীন

৮. কোন দেশের নাগরিক ২০১৭ সালে সাহিত্যে নোবেল পুরস্কার পেয়েছে?

- চীন
- নেপাল
- জার্মানি
- **জাপান**

৯. বিশ্ব সুনামি সতর্কতা দিবস কবে?

- **৫ নভেম্বর**
- ৭ নভেম্বর
- ১ নভেম্বর
- ৪ নভেম্বর

১০. বাংলাদেশের প্রথম রাষ্ট্রপতি কে?

- তাজউদ্দীন আহমদ
- সৈয়দ নজরুল ইসলাম
- ক্যাপ্টেন এম. মনসুর আলী
- **বঙ্গবন্ধু শেখ মুজিবুর রহমান**

১১. URL-এর পূর্ণরূপ কি?

- Universal resource location
- Unique resource location
- **Universal resource locator**
- Unique resource locator.

১২. নিচের কোনটি বাংলা ফন্ট?

- Malgun
- Bellmt
- Gagidi
- **Bensen**

১৩. ৮ বিটস (bits) এ কি হয়?

- Bit
- **Byte**
- kilobyte
- Megabyte

১৪. জাতির জনক বঙ্গবন্ধু শেখ মুজিবুর রহমান ১৯৭১ সালের ৭ই মার্চ ঢাকার রেসকোর্স ময়দানে যে ভাষণ দিয়েছিলেন তাকে ইউনেসকো কি হিসেবে স্বীকৃতি দিয়েছে?

- ওয়াল্ড ডকুমেন্টারি হেরিটেজ
- ওয়াল্ড ওয়ার হেরিটেজ
- ওয়াল্ড হিস্ট্রিক্যাল হেরিটেজ
- ওয়াল্ড মেমোরি হেরিটেজ

১৫. CRT হল একটি ---

- Bus
- Printer
- Keyboard
- Monitor

১৬. Trojan Horse হল একটি ---

- ব্রাউজার
- মেমরি
- ভাইরাস
- ইন্ট্যান্ট মেসেজিং

১৭. ROM কোন ধরনের স্মৃতি?

- স্থায়ী
- অস্থায়ী
- রংয়ানডম
- সহায়ক

১৮. জাতির জনক বঙ্গবন্ধু শেখ মুজিবুর রহমান এর 'অসমাঞ্ছ আত্মজীবনী' কত সালে প্রকাশিত হয়?

- ২০১৪
- ২০১৩
- ২০১২
- ২০১৫

১৯. এগুলোর মধ্যে কোনটির সর্বোচ্চ ভ্যালু?

- Giga-byte
- Mega-byte
- Tera-byte
- Exa-byte

২০. WTO-এর হেড অফিস কোথায় অবস্থিত?

- প্যারিস
- জেনেভা
- নিউইয়র্ক
- বার্লিন

BANK ASIA LTD.**MANAGEMENT TRAINEE -2017**

EXAM HELD ON: 28.04.2017; MARKS: 100; TIME: 90MIN

Part I: Multiple Choice Questions (MCQs);**Marks: 50; Time: 40 Minutes****Section A: English Language and Communication**

Q. (1 to 5): Find out which underlined parts (a, b, c and d) of the following sentences has an error. $1 \times 5 = 5$

- 01) The training manager must estimate the ^a expenses for the program, including costs for ^b its develop, delivery and evaluation. ^c ^d**

Answer: এখানে its এর পরে develop-এর Noun form development হবে, কারণ develop হলো Verb আর develop এর পরের শব্দ দুটোই Noun form-এ আছে, তাই parallel structure-এর নিয়ম অনুযায়ী develop-এর পরিবর্তে development হবে। তাহলে বাক্যটি হবে: The training manager must estimate the expenses for the program, including costs for its development, delivery and evaluation.

বাক্যের অনুবাদ: প্রশিক্ষণ ব্যবস্থাপক অবশ্যই প্রয়োজনের উন্নয়ন, বিতরণ ও মূল্যায়নব্যবসহ খরচের আনুযানিক হিসাব করবে।

ans. D

- 02) The frost-free period of high summer, ^a when mean daily temperatures ^b ^c are above 32 degrees, are short. ^d**

Answer: Subject-Verb agreement এর নিয়ম অনুযায়ী subject singular হলে এর verb-ও singular হয়। এখানে subject হলো "The frost-free period" এবং এটি singular, তাই, are short এর পরিবর্তে is short হবে। তাহলে বাক্যটি হবে: The frost-free period of high summer, when mean daily temperatures are above 32 degrees, is short.

বাক্যের অনুবাদ: তৃষ্ণাগ্রসূক্ষ্ম চরম গ্রীষ্মকালীন সময়, যখন গড় দৈনিক তাপমাত্রা ৩২ ডিগ্রী'র বেশি হয়, ছোট হয়। **ans. D**

03. Counselors will be available to give students

- a** **advices before they register for classes.**
b **c** **d**

Answer: এখানে advices না হয়ে advice হবে। তাহলে বাক্যটি হবে: Counselors will be available to give students advice before they register for classes.

বাক্যের অনুবাদ: শিক্ষার্থীগণ ক্লাসের জন্য নিবন্ধনের পূর্বেই

তাদের পরামর্শদানের জন্য উপস্থিতাগণ উপস্থিত থাকবেন।

ans. B

04. Each furniture on display in the central mall

- a** **is on sale for thirty percent off the**
b **c**
d **regular price.**

Answer: Furniture শব্দটি plural. এবং এখানে Verb 'is' রয়েছে; তাই Each furniture না হয়ে এর পরিবর্তে Each piece of furniture হবে। তাহলে বাক্যটি হবে: Each furniture on display in the central mall is on sale for thirty percent off the regular price.

বাক্যের অনুবাদ: কেন্দ্রীয় বিপরীকেন্দ্রে প্রদর্শিত প্রত্যেক আসবাব নিয়মিত মূল্যের চেয়ে ত্রিশ শতাংশ কম মূল্যে বিক্রয় হবে।

ans. A

05. The desert pocket mouse, common in the ^a ^b American Southwest, it is active mainly

c **d**
at night.

Answer: বাক্যে অপশন c) এর it কে অতিরিক্ত ব্যবহার করা হয়েছে। it ছাড়াই বাক্যটি স্বয়ংসম্পূর্ণ। তাহলে বাক্যটি হবে:

The desert pocket mouse, common in the American Southwest, is active mainly at night.

বাক্যের অনুবাদ: মরুভূমির ছোট ইনুর, যা আমেরিকার দক্ষিণ-

পশ্চিম অঞ্চলে সাধারণ, প্রধানত রাতে সক্রিয় হয়। **ans. C**

Q. (6 to 10): Each question below consists of a word printed in capital letters, followed by four words. Select the lettered word that is most nearly opposite in meaning to the word in capital letter. $[5 \times 1 = 5]$

06. ADHERE

- a) detach** **b) cleanse**
c) engulf **d) incise**

Answer: Question-এর জানা-অজানা শব্দগুলোর অর্থ: Adhere- মেনে চলা/ দৃঢ়সংলগ্ন থাকা, Detach- বিচ্ছিন্ন করা/ পৃথক করা, Cleanse- ধোয়া/ পরিষ্কার করা, Engulf- ঢালা, Incise- খোদাই করা। **ans. A**

07) EFFRONTERY

- a) charity
- b) deference
- c) simplicity
- d) deceitfulness

Answer: Question-এর জানা-অজানা শব্দগুলোর অর্থ:

Effrontery- নির্লজ্জ সাহস/ বেহায়াপনা/ উক্তজ্ঞ, Charity- দানশীলতা, Deference- বশ্যতা, শীকার/ মেনে দেওয়া, Simplicity সরলতা, Deceitfulness- প্রতারণাপূর্ণতা/ কৃটিলতা।

ans. C

08. OBDURATE

- a) complaisant
- b) similar
- c) commensurate
- d) transitory

Answer: Question-এর জানা-অজানা শব্দগুলোর অর্থ:

Obdurate একভাবে/ পাষাণচন্দন/ অদম্য, Complaisant- সুবীল/ বিস্ময়ী, Similar অনুরূপ/ একইরকম, Commensurate - তুল্য/ সমান/ সমানুপাতিক, Transitory - নম্নোর্ধব/ ক্ষণস্থায়ী।

ans. D

09. AVER

- a) resign indignantly
- b) refuse
- c) resent
- d) deny

Answer: Question-এর জানা-অজানা শব্দগুলোর অর্থ:

Aver- অনুমোদন করা/ সমর্থন করা/ জোর দিয়ে বলা, Resign indignantly- বিরক্তিভরে পদত্যাগ করা, Refuse- প্রত্যাখ্যান করা/ অস্বীকার করা/ উপেক্ষা করা, Resent- তীব্র বিরক্তি, Deny- অস্বীকার করা/ প্রত্যাখ্যান করা/ অসভ্য বলে ঘোষণা করা।

ans. D

10. SUPINE

- a) vigilant
- b) flustered
- c) distorted
- d) brittle

Answer: Question-এর জানা-অজানা শব্দগুলোর অর্থ:

Supine - কুড়ে/ অলস/ অকর্ম, Vigilant - সজাগ/ সতর্ক/ অতস্ত্বী, Flustered হতবুদ্ধি, Distorted বিকৃত, Brittle - ভঙ্গুর।

ans. A

Q. (11 to 15): Select the pair that expresses a relationship similar to that expressed in the original pair given uppercase.

[5 x 1 = 5]

11. PRUNE : HEDGE ::

GRE Big Book - Test 26 - Q 3, Kaplan GRE Test 12- Q 2

- a) shuck : corn
- b) trim : hair
- c) cut : bouquet
- d) reap : crop

Answer: Prune - সুন্দর করে খোপ কাটা, Hedge- বাগান/ বেড়ার পাতে ছেট ছেট খোপ/ গাছ, Shuck -বাদাম বা বিনুকের বাইরের আবরণ সরানো, Corn - শয় দানা, Hair -

বাইঘর করা

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চূল, Trim - ছাঁটা, Cut- কাটা, Bouquet - তোড়া/ ফুলের তেজা, Reap - ফসল কাটা, Crop - শয় দানা।

Hedge সুন্দর করে ছাঁটা হলো Prune; আর Hair (চূল) সুন্দর করে ছাঁটা হলো Trim (ছাঁটা)।

ans. B

12. ANTIBIOTIC : INFECTION::

[GRE Big Book - Test 26 - Q 13, Kaplan GRE -Test 12- Q 4]

- a) hormone : modification
- b) enzyme : digestion
- c) narcotic : dependency
- d) coagulant : bleeding

Answer : Antibiotic - প্রতিবেধক, Infection ঘী/ ক্ষত, Hormone হরামোল, Modification ক্রপাস্তুর, Enzyme - পাচক রস, Digestion - ইজম, Narcotic - ঘূর্ম আনার ঔষধ, Dependency নির্ভরশীলতা, Coagulant - যে পদার্থের জন্য তরল ঘন হয়/ রক্ত পরা বক্স করার ঘর্জ, Bleeding - রক্তক্ষরণ।

Antibiotic (প্রতিবেধক) দিয়ে Infection (ঘী/ ক্ষত) প্রতিরোধ করা হয়; আর Coagulant (রক্ত পরা বক্স করার ঘর্জ) দিয়ে Bleeding (রক্তক্ষরণ) বন্ধ করা হয়।

ans. D

13. EULOGY : PRAISE ::

GRE Big Book - Test 26 - Q 14, Kaplan GRE Test 12- Q 5

- a) comedy : laughter
- b) elegy : lament
- c) tirade : awe
- d) opium : contempt

Answer : Eulogy - স্তুতি বিদ্যা/প্রশংসাবাদ, Praise - প্রশংসা, Comedy -হাস্যরসাত্ত্বক মাটক, Laughter হাসি/উচ্চ হাসা, Elegy - শোক গাথা, Lament - শোক, Tirade অপরাধ পূর্ণ দীর্ঘ জোরালো বক্ষব্য, Awe শ্রাদ্ধা/ভক্তি মিশ্রিত, Contempt - ঘৃণা করা।

Eulogy ও Praise সমার্থক শব্দ, যার অর্থ প্রশংসা; Elegy ও Lament সমার্থক শব্দ, যার অর্থ শোক।

ans. A

14. CANDLE : WAX

GRE Big Book - Test 4 - Q 10

- a) metal : corrosion
- b) leather : vinyl
- c) curtain : pleat
- d) tire : rubber

Answer : Candle - মোমবাতি, Wax - মোম, Metal - ধাতু, Corrosion ক্ষয়, Leather চামড়া, Vinyl-ডিনাইল/নমনীয় প্রাস্তিক, Curtain- পর্দা, Pleat খোপা, Tire- চাকা, Rubber- রাবার, Wood - কাঠ, Ash- ছাই। Wax (মোম) থেকে Candle (মোমবাতি) তৈরি; আর Rubber (রাবার) থেকে Tire (টায়ার) তৈরি হয়।

ans. D

15. COMPLIANT : SERVILE ::

GRE Big Book - Test 4 - Q 13

- a) trusting : gullible
- b) cringing : fawning
- c) pleasant : effortless
- d) arduous : futile

Answer : Compliant -আদেশ অনুসারে কার্য, Servile

মানোর পারেক নিজে সজানের বেছেন্তে।

দাস, Trusting বিশ্বাস যোগ্য, Gullible সহজে ঠকানো যায় এমন, Cringing দাসসূলভ আচরণ করা, Fawning - চাটকারিভাব মাধ্যমে কারো অনুযায়ী লাভের চেষ্টা, Pleasant- আরামপ্রদ/ স্লিপ্স, Effortless- অনায়াস, Arduous -পরিশ্রম সাধা, Futile -অনর্থক/ ত্রুটি। Compliant (আদেশ অনুসরে কর্ম) করলে Servile (দাস) হতে হয়; আর Trusting (বিশ্বাস যোগ্য) বেশ হলে Gullible (সহজে ঠকানো যায় এমন/ সহজে ধোকা দেওয়া) হতে হয়।

ans. A

Section B : Mathematics

Q. (16 to 25): [1x 10 = 10]

16. If a square region has area n , what is the length of the diagonal of the square in terms of n ? অনুবাদ: একটি বর্গের ক্ষেত্রফল n হলে n এর সাপেক্ষে বর্গটির কর্ণের দৈর্ঘ্য কত হবে?

- a) $\sqrt{2n}$ b) \sqrt{n}
 c) $2\sqrt{n}$ d) $2n$

Answer: দেওয়া আছে,

বর্গের diagonal বা কর্ণ = $\sqrt{2} a$ একক। এখানে a = বাহুর দৈর্ঘ্য। এবং বর্গের ক্ষেত্রফল = a^2 বর্গ একক।

তাহলে $a^2 = n$

$$\text{diagonal বা কর্ণ} = \sqrt{2} \times \sqrt{n} = \sqrt{2n} \quad \text{ans. A}$$

17. The population of a bacteria culture doubles every 2 minutes. Approximately how many minutes will it take for the population to grow from 1,000 to 500,000 bacteria ?

অনুবাদ: ব্যাকটেরিয়া Culturing এ ব্যাকটেরিয়া প্রতি 2 মিনিটে দ্বিগুণ হয়। তাহলে, 1,000 টি ব্যাকটেরিয়া হতে 5,0000 ব্যাকটেরিয়ার পৌছাতে কত মিনিট সময় লাগবে ?

- a) 10 b) 12
 c) 14 d) 18

Answer: 2 মিনিটে ব্যাকটেরিয়া হবে = $1000 \times 2 = 2000$

$$2 + 2 \text{ মিনিটে ব্যাকটেরিয়া হবে } 2000 \times 2 = 4000$$

$$4 + 2 \text{ মিনিটে ব্যাকটেরিয়া হবে } 4000 \times 2 = 8000$$

$$6 + 2 \text{ মিনিটে ব্যাকটেরিয়া হবে } 8000 \times 2 = 16000$$

$$8 + 2 \text{ মিনিটে ব্যাকটেরিয়া হবে } 16000 \times 2 = 32000$$

$$10 + 2 \text{ মিনিটে ব্যাকটেরিয়া হবে } 32000 \times 2 = 64000$$

$$12 + 2 \text{ মিনিটে ব্যাকটেরিয়া হবে } 64000 \times 2 = 128000$$

$$14 + 2 \text{ মিনিটে ব্যাকটেরিয়া হবে } 128000 \times 2 = 256000$$

$$16 + 2 \text{ মিনিটে ব্যাকটেরিয়া হবে } 256000 \times 2 = 512000$$

ans. D

18. In the correctly worked addition problem shown, where the sum of the two-digit position integers AB and BA is the three-digit integer AAC , and C are different digits, what is the units digit of the integer AAC ?

অনুবাদ: দুই অঙ্কের পূর্ণ সংখ্যা AB ও BA এর যোগফল হলে তিন অঙ্কের পূর্ণ সংখ্যা AAC যেখানে, A , B & C তিনটি ভিন্ন ভিন্ন অঙ্ক হলে AAC সংখ্যাটির একক হানীয় অঙ্কটি কত ?

- a) 9 b) 6
 c) 0 d) 3

Answer

দুই অঙ্ক বিশিষ্ট সংখ্যা AB এবং দুই অঙ্ক বিশিষ্ট সংখ্যা হানীয় বিনিময় করলে যে সংখ্যা পাওয়া যায় সেটি হলো BA এবং তাদের যোগফল তিন অঙ্কবিশিষ্ট সংখ্যা AAC হবে। অর্থাৎ শতক ও দশকের স্থানে অবশ্যই A অঙ্কটি বসবে।

$$A = 1 \text{ এবং } B = 9 \text{ হলে}$$

$$AB = 19 \text{ ও } BA = 91$$

$$AB + BA = 19 + 91 = 110$$

$$\text{এখন, } AAC = 110$$

$$\text{সংখ্যাটির একক হানীয় অঙ্ক} = 0$$

ans. C

19. Company K's earnings were Tk. 12 million last year. If this year's earnings are projected to be 150% greater than last year's earnings, what are Company K's projected earnings this year ?

অনুবাদ: গত বছর একটি Company'র আয় ছিল 12 মিলিয়ন। এই বছরে গত বছরের চাইতে 150% বেশি হবে বলে পূর্বাভাস দেয়া হলে এই বছরের আয় কত হতে পারে ?

- a) Tk.13. 5 million b) Tk.18 million
 c) Tk.27 million d) none of these

Answer: Last year's earning was Tk. 12 million
 Company K's projected earnings this year = 12

$$\text{million} + 12 \text{ million} \times \frac{150}{100} = 12 \text{ million} + 18 \text{ million} = 30 \text{ million.}$$

ans. D

20. A certain population of bacteria doubles every 10 minutes. If the number of bacteria in the population initially was 10^4 , what was the number of bacteria in the population 1 hour later ?

অনুবাদ: প্রতি 10 মিনিটে ব্যাকটেরিয়ার সংখ্যা বিগড় হয়। প্রথমে ব্যাকটেরিয়ার সংখ্যা 10^4 টি থাকলে 1 ঘণ্টা পরে কয়টি ব্যাকটেরিয়া হবে?

- a) $2(10^4)$ b) $6(10^4)$
 c) $(2^6)(10^4)$ d) $(10^6)(10^4)$

Answer:

প্রথমে ছিল 10^4 বা 10000 যা প্রতি 10 মিনিটে বিগড় হয়।

$$10 \text{ মিনিটে ব্যাকটেরিয়া হবে} = 10000 \times 2 = 20000$$

$$20 \text{ মিনিটে ব্যাকটেরিয়া হবে} = 20000 \times 2 = 40000$$

$$30 \text{ মিনিটে ব্যাকটেরিয়া হবে} = 40000 \times 2 = 80000$$

$$40 \text{ মিনিটে ব্যাকটেরিয়া হবে} = 80000 \times 2 = 160000$$

$$50 \text{ মিনিটে ব্যাকটেরিয়া হবে} = 160000 \times 2 = 320000$$

$$60 \text{ মিনিটে ব্যাকটেরিয়া হবে} = 320000 \times 2 = 640000$$

$$1 \text{ ঘণ্টা পর হবে} = 640000 = 64 \times 1000 = 2^6 \times 10^4$$

ans. C

21. Last year Salem received 26 paychecks. Each of his first 6 paychecks was Tk. 750; each of his remaining paychecks was Tk. 30 more than each of his first 6 paychecks. To the nearest taka, what was the average amount of his paychecks for the year?

অনুবাদ: গত বছর Salem 26টি Paycheck পেল যার মধ্যে প্রথম 6 টির ওভেকটি 750 টাকার এবং বাকি Paycheck গুলো পূর্বের Paycheck এর চাইতে 30 টাকা বেশি হলে এসকল Paycheck গুলোর গড় টাকার পরিমাণ (প্রায়) কত হবে?

- a) Tk. 752 b) Tk. 755
 c) Tk. 765 d) none of these

Answer:

$$\text{Total amount of } 1^{\text{st}} 6 \text{ paychecks} = 750 \times 6 = 4500$$

Total amount of next 20 paychecks

$$= (750 + 3) \times 20 = 15600$$

$$\text{Total money} = (4500 + 15600) = 20100$$

$$\begin{aligned} \text{Average amount of his paychecks} &= \frac{20100}{26} \\ &= 733.07. \end{aligned}$$

ans. D

22. The arithmetic mean of the list of numbers given below is 4. If k and m are integers and $k \neq m$, what is the median of the list?

[Given list:- 3, k, 2, 8, m, 3]

অনুবাদ: (3, k, 2, 8, m, 3) এই সংখ্যাগুলোর গড় 4. যদি k ও m পূর্ণ সংখ্যা হয় এবং $k \neq m$ হয় তবে সংখ্যাগুলোর মধ্যক কত?

- a) 2 b) 2.5
 c) 3 d) none of these

Answer: দেওয়া আছে,

$$\frac{3+k+2+8+m+3}{6} = 4$$

$$\Rightarrow 16 + k + m = 24 \Rightarrow k + m = 8$$

প্রশ্নমতে, $k \neq m$, k বা m এর কোনটিরই মান 4 হবে না। একটি 3 অথবা 3 থেকে কম অন্যটি থেকে 4 বড় হবে।

যেমন (1, 7) (2, 6) বা (3, 5)

Possible lists: {2, 3, 3, 3, 5, 8} অথবা {2, 2, 3, 3, 6,

- 8} অথবা {1, 2, 3, 3, 7, 8}

$$\text{Median} = \frac{3+3}{2} = 3 \quad \text{ans. C}$$

23. If $xy > 0$ and $yz < 0$, which of the following must be negative?

অনুবাদ: যদি $xy > 0$ ও $yz < 0$, হয়, তাহলে নিচের কোনটি অবশ্যই ঋণাত্মক হবে?

- a) xyz b) xyz^2
 c) xy^2z d) xy^2z^2

Answer:

$xy > 0 > yz$ xy is Positive and yz is Negative.

$xy \times yz = xy^2z$ is Negative.

{Positive \times Negative = Negative} ans. C

24. What is the remainder when 3^{24} is divided by 5?

অনুবাদ: 5 দিয়ে 3^{24} কে ভাগ করলে ভাগশেষ কত ধাকবে?

- a) 0 b) 1
 c) 2 d) 3

Answer:

$$3^{24} \text{ Or, } 3^4 \times 3^4 \times 3^4 \times 3^4 \times 3^4 \times 3^4 \div 5$$

$$= 81 \times 81 \times 81 \times 81 \times 81 \times 81 \div 5$$

5 ধারা 81কে ভাগ করলে সবসময় 1 ভাগশেষ ধাকবে।

ans. B

25. A dishonest trader mixes 2 kg of vegetable ghee costing Tk. 45 a kg with 3 kg of standard ghee costing Tk. 70 per kg. He sells the mixed ghee at Tk. 65 per kg. What is his percentage of profit?

অনুবাদ: 45 টাকা কেজি দরের 2 কেজি Vegetable ঘি'র সাথে 70 টাকা কেজি দরের 3 কেজি Standard ঘি'র সাথে Mix করে তা 65 টাকা কেজি দরে বিক্রয় করা হলো। শতকরা লাভের পরিমাণ কত?

- a) 25% b) 16.67%
c) 8.33% d) 6%

Answer:

$$\text{Cost of vegetable ghee} = 45 \times 2 = 90$$

$$\text{Cost of standard ghee} = 70 \times 3 = 210$$

$$\text{Total cost} = (90 + 210) = 300$$

$$\text{Selling price of mixed ghee} = 65 \times 5 = 325$$

$$\text{Profit} = (325 - 300) = 25$$

make profit in 300 Tk. = 25 Tk.

$$\text{make profit in 100 Tk.} = \frac{25 \times 100}{300} = 8.33 \text{ Tk.}$$

or 8.33% ans. C

Q. (26 to 29): Read the information and answer the question. [2 x 4 = 8]

Six products- U, V, W, X, Y and Z- are to be placed in the display window of a vending machine with six compartments, numbered 1 through 6 from left to right. The products must be placed in the window, one product in each compartment, according to the given conditions; U cannot be immediately to the left or immediately to the right of V; W must be immediately to the left of X; Z cannot be in compartment 6.

U, V, W, X, Y এবং Z এই 6 টি Product. 6 টি Compartment এ স্থাপন করতে হবে।

শর্তসমূহ:

- i) V এর ঠিক আগে বা ঠিক পরে U থাকতে পারবে না।
- ii) X এর ঠিক বাম পাশেই থাকবে W।
- iii) Z product টি 6 নং Apartment এ থাকবে না।

26. Which of the following products cannot be placed in compartment 1?

- a) U b) V
c) W d) X

Answer: X এর পূর্বে অবশ্যই W placed করতে হবে।

ans. D

27. If X is placed in compartment 3, W must be placed in compartment-

- a) 1 b) 2
c) 4 d) 5

Answer: X এর পূর্বে অবশ্যই W কে placed করতে হলে X-3 তে placed হলে W অবশ্যই 2 তে placed তে হবে।

ans. B

28. If U is placed in compartment 5, which of the following products must be placed in compartment 6 ?

- a) V b) W
c) X d) Y

Answer: X এর পর V হবে না। X এর পূর্বে অবশ্যই W থাকবে। সূতরাং Y হবে।

ans. D

29. If Z is placed in compartment 3, immediately to the right of X, Which of the following products must be placed in compartment 5 ?

- a) U b) V
c) W d) Y

Answer: Z-3 নং এ X এর পরেই ডানদিকে হলে Y হবে 5 নং এ কারণ U এবং V পাশাপাশি হবে না।

ans. D

Q. (30 to 33): Read the information and answer the question. [1.5 x 4 = 6]

30. If P denotes +, Q denotes -, R denotes + and S denotes ×; then what is the value of 18S36R12Q6P7?

- a) 115 b) 55
c) 25 d) none of these

Answer:

$$18 \times 36 \div 12 - 6 + 7$$

$$= 18 \times 36 \times \frac{1}{12} - 6 + 7$$

$$= 18 \times 3 - 6 + 7$$

$$= 54 - 6 + 7$$

$$= 55$$

ans. B

31. If the word 'NATION' is written as OCWMTT, how 'COUNTR' would be written in the code ?

- a) DQXRYX b) DPXRYX
c) DCXRYX d) none of these

Answer:

N	O	
A	B	C
T	UV	W
I	JKL	M
O	PQRS	T
N	OPQRS	T

C = D
O = Q
U = X
N = R
T = Y
R = X

'COUNTR' would be
DQXRYX. *ans. A*

32. If the letter M was removed from the alphabet, what would the middle letter of the alphabet be ?

- a) O
- b) N
- c) P
- d) Q

Answer: ABCDEFGHIJKLMN OPQRS
TUVWXYZ. *ans. B*

33. Which of the following numbers can be placed at the sign of interrogation ?

6	8	7
36	64	49
24	48	?

- a) 35
- b) 30
- c) 45
- d) 40

Answer:

$$6 \times 6 - 6 \times 2 = 24$$

$$8 \times 8 - 8 \times 2 = 48$$

$$7 \times 7 - 7 \times 2 = 35$$

ans. A

Section C : Economics and General Knowledge

Q. (34 to 44): Choose the correct answer:

[1x 11 = 11]

34. In economics, utility means the capacity of goods or services to-

- a) provide comfort
- b) earn income
- c) satisfy human wants
- d) save money

Answer: utility হচ্ছে প্রয়োর অভাব যোচনের ক্ষমতা।

ans. C

35. Buyer's market denotes the place where

- a) The supply exceeds demand
- b) The demand exceeds the supply
- c) The demand and supply are well balanced
- d) None of these

ans. A

36. There is no advertising cost in the _____.

- a) Monopoly
- b) Perfect Competition
- c) Oligopoly
- d) Monopolistic Competition

ans. A

37. What of the following is not the example of direct taxation ?

- a) VAT
- b) Income Tax
- c) Wealth Tax
- d) Capital Gain Tax

Answer: Tax: Imposition of compulsory levies on persons or other entities by governments. Taxes are levied in almost every country of the world, primarily to raise revenue for government expenditures, although they serve other purposes as well.

Direct taxes: Direct taxes are primarily taxes on persons: they are aimed at the individual's ability to pay as measured by his income or his net wealth.

Indirect taxes: Indirect taxes are levied on objects and services or transactions. They include general and selective taxes on sales of consumer goods, value-added taxes, taxes on goods in the process of production, taxes on legal transactions, and import or customs duties. মূল্য সংযোজন করে VAT. *ans. A*

38. Which organization does regulate the EPZs of Bangladesh ?

- a) BEPZA
- b) EPB
- c) BB
- d) MRA

Answer: বাংলাদেশের EPZ নিয়ন্ত্রণ করে BEPZA.

ans. A

39. Which of the following is the largest user of gas in Bangladesh ?

- a) DESA
- b) BPBD
- c) Households
- d) fertilizer sectors

Answer: বাংলাদেশে বেশি গ্যাস ব্যবহৃত হয় বিদ্যুৎ উৎপাদন। আর বিদ্যুৎ উৎপাদন করে Bangladesh

- Development Board=BPDB. *ans. B*

40. In which year Kosovo got recognition from Bangladesh ?

- a) 2013
- b) 2015
- c) 2016
- d) 2017

Answer: বাংলাদেশ ১১৪তম দেশ হিসেবে কসোভো কে শীকৃতি দেয় ২৭ ফেব্রুয়ারি ২০১৭। *ans. D*

41. Leo Tolstoy is a _____ novelist.

- a) Irish
- b) German
- c) Russian
- d) Italian

Answer: লিও টলস্টয় রাশিয়ান উপন্যাসিক। তার বিখ্যাত সাহিত্যকর্ম War and Peace, Anna Karenina ইত্যাদি।

ans. C

42. The SMART card (NID) of Bangladesh Election Commission was made from which country?

- a) Japan
- b) France
- c) India
- d) Germany

Answer: স্মার্ট কার্ড তৈরি করা হয়েছে ফ্রান্স।

ans. B

43. Who was the only centurian in the 100th test cricket of Bangladesh?

- a) Sabbir Rahman
- b) Tamim Iqbal
- c) Mushfiqur Rahim
- d) Sakib al Hasan

Answer: ১০০তম টেস্টে বাংলাদেশের পক্ষে একমাত্র সেন্চুরি করেন সাকিব আল হাসান।

ans. D

44. Which of the following is the lightest metal?

- a) Mercury
- b) Silver
- c) Lithium
- d) Iron

Answer: লিথিয়াম একটি রাসায়নিক মৌল যার প্রতীক Li এবং পারমাণবিক সংখ্যা 3। এটি সবচেয়ে হালকা কঠিন মৌল।

ans. C

Part II: Descriptive Questions (MCQs); Marks: 50;

Time: 50 Minutes

Section-A: English Language and Communication

01. Translate into English:

12

শীর্ষ প্রবাসী আয় অর্জনকারী দেশগুলোর মধ্যে বাংলাদেশ অট্টম হলো গত বছর প্রবাসী আয়ে কোনো প্রবৃক্ষ হয়নি বরং অনেক কমেছে। প্রবাসী আয়ের এই অধোগতি অব্যাহত থাকলে তা বাংলাদেশের অর্থনীতির জন্য একটি বড় চ্যালেন্জ হয়ে দেখা দেবে। কারণ অর্থনীতিকে প্রবাসী আয়ের অবদান মোট জিভিপির ৬ শতাংশের মতো। প্রবাসী আয় কাজ যাওয়ার পেছনে মূল কারণ হিসেবে বলা হচ্ছে, মধ্যপ্রাচোর তেল উৎপাদনকারী দেশগুলোতে তেলের দাম কমে যাওয়া। এটাই যদি মূল কারণ হয়ে থাকে, তাহলে প্রবাসী আয়ের লক্ষ্যে মধ্যপ্রাচোর দেশগুলোর ওপর আমাদের নির্ভরতা কমাতে হবে। পাশাপাশি আমাদের বিকল্প জনশক্তির বাজার খুঁজতে হবে। প্রবাসী আয় কমে যাওয়ার ক্ষেত্রে বাংলাদেশের শ্রমিকদের অবক্ষতাও একটি বড় কারণ। ফলে জনশক্তির নতুন বাজার খুঁজে বের করতে উদ্যোগী হওয়ার

পাশাপাশি বাংলাদেশ থেকে দক্ষ শ্রমিক পাঠানোর দিকেও ওরুচ্ছ দিতে হবে। আন্তর্জাতিক বাজারের চাহিদার দিকটি বিবেচনায় নিয়ে বিভিন্ন ক্ষেত্রে দক্ষ শ্রমিক গড়ে তুলতে প্রয়োজনীয় প্রশিক্ষণের ব্যবস্থা করতে হবে।

Answer: Although Bangladesh is the eighth among the top expatriate earning countries, there was no growth in the expatriate income last year; rather it has decreased. If this decline of expatriate income countries it will be a big challenge for the economy of Bangladesh. Because of het expatriate income contribution in the economy it is about 6 percent of GDP. The main reason behind the decline in expatriate income is that oil prices decline in the middle cast's oil producing countries. If this is the main reason, then our dependence on the middle east countries will be reduce to the goal of expatriate income. We also have to find our alternative manpower market.

The inefficiency of the Bangladesh workers is also a major factor in reducing the expatriate income. Besides as well as being motivated to find out the new market of manpower, the importance of sending skilled workers from Bangladesh is also important. Considering the needs of the international market there will be necessary training to develop skilled workers in deferent areas.

02. Write a short note on "Providing Rural Finance By Commercial Bank of Bangladesh Challenges and Remedies" [14]

Answer:

Introduction: After over 4 decades of Independence and development in our country, sill large part of population remains under poverty line. Agriculture continues to be the back bone of rural society. For the strength of the country there is a necessity to develop the village.

Rural Financing and Development of Village: Rural financing implies financing in rural areas. In other words economic development in rural areas refers to rural financing. This means rural financing is synonymous with rural development. Most of the total population live in rural areas. Rural financing by commercial of Bangladesh are playing very

important role in the development of economy. They face various problems in day to day work. Some of the major problems faced by rural financial by commercial banks.

Challenges: Information technology is not very common in rural areas. The intensity of family and personal relationships in rural communities can sometime be helpful but they may also present obstacles to effective business relationships.

Commercial banks find it extremely difficult in complying with various legal formalities in obtaining licenses due to illiteracy and ignorance.

Commercial banks suffer a severe problem of lack of technical knowledge. Lack of training facilities and extension service crate a hurdle for the development of rural financing. Rural areas are unable to find workers with high skills. Turnover rates are also high in this case. They have to be provided with on the job training and their training is generals a serious problem for banks.

Remedies to solve these problems: Creation of finance cells the financial institutions of banks which provide finances to entrepreneurs must create special cells for providing easy finance to commercial banks. Problems faced by commercial banks.

Concessional rates if interest the commercial banks should be provide finance of concessional rates should be provide finance at concessional rates of interest and on easy repayment basils. The cumbersome formalities should be avoided in sanctioning the loans to commercial banks.

Proper supply of raw materials should be ensured of proper supply of scarce raw materials on priority basis.

Setting up marketing co-operatives proper encouragement and assistance should be provide to commercial banks for setting up marketing co-operatives. Thus, proper education, comprehensive training, setting up of separate financial institutions, development of marketing co-operatives to a large extent help to flourish the commercial banks in Bangladesh.

Section-B: Mathematics **$3 \times 4 = 12$**

03. Mr. Karim borrowed Tk. 500 at 5% simple interest per year. After some time, he borrowed Tk. 400 at $3\frac{1}{2}\%$ simple interest per year for the second time. Six months after the second time borrowing, he repaid both the borrowed money along with interest and the amount repaid was Tk. 994.50. How many years after the first time borrowing Mr. Karim repaid the borrowed money ?

Answer: Total money = $500 + 400 = 900$ Tk.

Total interest = $(994.50 - 900) = 94.50$ Tk.

We know that, Interest = Principal + rate + Time

$$400 \times \frac{3.5}{100} \times \frac{1}{2} = 7$$

Interest of 500 Tk. $(94.50 - 7) = 87.50$ Tk.

At 5% interest,

Interest of 100 Tk. in 1 year = 5 Tk.

$$\text{Interest of 500 Tk. in 1 year} = \frac{5 \times 500}{100} = 25 \text{ Tk.}$$

25 Tk. interest come from = 1 year

$$1 \text{ Tk. interest come from} = \frac{1}{25} \text{ year}$$

$$87.50 \text{ Tk. interest come from} = \frac{1 \times 87.50}{25} \text{ year}$$

= 3.5 years (Ans.)

04. Rahim can do a piece of work in 80 days.

Rahim works for 10 days and Karim alone finishes the rest of the work in 42 days. How much time would it take for the two of them together to complete the whole work ?

Answer:

In 80 days Rahim can do 1 or full work.

In 10 days Rahim can do $\frac{1 \times 10}{80} = \frac{1}{8}$ part of work

$$\text{Remaining work} = (1 - \frac{1}{8}) = \frac{8 - 1}{8}$$

$$= \frac{7}{8} \text{ part of work}$$

In 42 days Karim finished $\frac{7}{8}$ part of work

$$\text{In 1 days Karim finished} \frac{7}{8 \times 42} = \frac{1}{48} \text{ part of work}$$

They can together in 1 days = $\left(\frac{1}{80} + \frac{1}{48}\right) = \frac{3+5}{240}$
 $= \frac{8}{240} = \frac{1}{30}$ part of work

They can finished $\frac{1}{30}$ part of work in = 1 day.
 \therefore They can finished 1 or full work in = $\frac{1 \times 30}{1} = 30$ day. (Ans.)

05. The length of a rectangular field is $\frac{1}{2}$ times of width. An amount of Tk. 10,260 was needed to cover the field with grass at the rate of 1.9 Tk. per square meter. How much would it cost to fence the four sides of the rectangular field at the rate of Tk. 2.5 per meter?

Answer: Let the width of the rectangular field be x meters and length $\frac{1}{2}x = 1.5x$

$$\text{Total area} = 1.5x \times x = 1.5x^2$$

According to question,

$$1.9 \times 1.5x^2 = 10260$$

$$\Rightarrow 2.85x^2 = 10260$$

$$\Rightarrow x^2 = 3600$$

$$x = \sqrt{3600} = 60$$

$$\text{Width } 60 \text{ m and length } = (1.5 \times 60) = 90 \text{ m}$$

$$\text{Perimeter} = 2(90 + 60) = 300 \text{ m}$$

$$\text{Cost} = \text{Tk. } 300 \times 2.5$$

$$= \text{Tk. } 750 \quad (\text{Ans.})$$

06. Solve the question: $\frac{x-4}{x-1} + \frac{x-7}{x-3} + \frac{x-2}{x-9} = 3$

Answer:

$$\frac{x-4}{x-1} + \frac{x-7}{x-3} + \frac{x-2}{x-9} = 3$$

$$\Rightarrow \frac{x-4}{x-1} + \frac{x-2}{x-9} = 3 - \frac{x-7}{x-3}$$

$$\Rightarrow \frac{(x-4)(x-9) + (x-2)(x-1)}{(x-1)(x-9)} = \frac{3x-9-x+7}{(x-3)}$$

$$\Rightarrow \frac{x^2 - 9x - 4x + 36 + x^2 - x - 2x + 2}{x^2 - 9x - x + 9} = \frac{2x-2}{x-3}$$

$$\Rightarrow (x-3)(2x^2 - 16x + 38) = (2x-2)(x^2 - 10x + 9)$$

$$\Rightarrow 2x^3 - 16x^2 + 18x - 6x^2 + 48x - 114 = 2x^2 - 20x^2 + 18x - 2x^2 + 20x - 18$$

$$\Rightarrow 2x^3 - 22x^2 + 86x - 2x^3 + 22x^2 + 38x = -18 + 114$$

$$\Rightarrow 48x = 96$$

$$\Rightarrow x = \frac{96}{48}$$

$$x = 2 \quad (\text{Ans.})$$

02. Describe the information Contained in the following Table.

12

Bank Loans Outstanding in Bangladesh by Different Economic Purposes and Bank Groups (%)

	2015 (September)					2016 (September)				
	SOCBs	PCBs	SBs	FCBs	All Banks	SOCBs	PCBs	SBs	FCBs	All Banks
1. Agriculture, Fishing & Poetry	6.98	1.92	66.50	2.18	5.57	6.86	1.79	77.73	1.31	5.37
2. Industrial Term loans	20.94	16.64	3.65	2.58	17.74	26.62	16.43	3.63	8.42	17.62
3. Industrial Working Capital	11.01	21.68	4.59	39.22	19.62	11.18	22.43	3.21	40.22	20.22
4. Construction	10.07	9.27	0.67	1.66	8.76	9.97	9.63	0.66	0.54	8.98
5. Transport and Communications	0.58	0.87	0.00	0.84	0.78	0.88	0.77	0.02	0.66	0.76
6. Trade Finance	33.37	38.95	19.17	24.40	36.46	31.93	38.54	12.75	23.67	35.76
7. Contender Finance	8.78	8.79	0.81	19.25	8.53	10.70	7.64	1.92	18.82	8.35
8. Other	2.29	2.38	4.61	4.57	2.54	2.56	2.77	5.09	5.86	2.83
Total	100	100	100	100	100	100	100	100	100	100

BANGLADESH SHOMOBAY BANK LTD. (BSBL)

RECRUITMENT EXAMINATION OF OFFICER - 2015

TIME: 1.30 HOUR; MARKS: 80

Bangla - 20

01. বাংলাদেশের কৃষি ক্ষেত্রে উৎপাদন বৃক্ষিতে ও বিপননে সমবায়ের কৃমিকা আলোচনা করুন। (10 Marks)

Answer:

বাংলাদেশের কৃষি ক্ষেত্রে উৎপাদন বৃক্ষিতে ও বিপননে সমবায়ের কৃমিকা: সংবিধানে সম্পদের মালিকানার ক্ষেত্রে সমবায়কে সীকৃতি দেয়া হয়েছে। বাংলাদেশের অর্থনৈতিক উন্নয়নে দারিদ্র্য বিমোচন, অন্তর্জাত, অবহেলিত শক্তি পুর্জির অর্থনৈতিক উন্নয়ন এবং সামাজিক শর্যাদা বৃক্ষিতে উন্নতপূর্ণ কৃমিকা গালন করে।

বাংলাদেশের কৃষি ও প্রাণিক কৃষকদের ভূমিকা ও কৃষির ক্ষেত্রে যেসব সমস্যা বিদ্যমান সে সম্পর্কে তথ্য অধ্যেত্বণ এই কাজের বিষয়বস্তু বা একটি সমবায়ের মধ্যে আলোচিত হয়। এ কাজে তথ্য সংরক্ষ করা হয়েছে প্রাণিক ও কৃষি কৃষক এবং ক্ষেত্রমন্ত্রণের সাথে ব্যক্তিগত সাক্ষাত্কার ও দলীয় আলোচনা, বিভিন্ন সরকারি কৃষি সম্প্রসারণ কর্মকর্তার সাথে আলোচনা, কৃষি এলাকা প্রিন্সিপ জগিল, সফলতার কাহিনি সংগ্রহ এবং নাগরিক সমাজ ও রাজনৈতিক সংগঠনের সাথে আলোচনা করা।

কৃষি ও কৃষকের সমস্যা এবং সমবায়ের কৃমিকা:

কৃষি ও কৃষকের সমস্যা চিরজন এবং অবাহত তবে সমস্যার ধরন কখনও কখনও পরিবর্তিত হয়। বর্তমানে কৃষকেরা ত্যে সমস্যাগুলো তুলে ধরেছে তার মধ্যে অন্যতম:

- কৃষকদের প্রধান সমস্যা মাখাবতুভোগী। যাহ আর ক্ষেত্রে অথবা বাজার লবের অনেক প্রার্থক থাকে। একটি সমবায় সরকারের মাধ্যমে কৃষকেরা সরাসরি পণ্য বিক্রয় করতে পারে তার দাটিত প্রালোচন করে।
- ক্ষেত্রমন্ত্রণের কৃষির দ্বারা সম আয়গ্রাহ অঙ্গু নয় তা নিশ্চিত করে সমবায়।
- গ) কৃষি জমি, অকৃষি কাজে ব্যবহার হচ্ছে বা সমবায় যাচাই করছে।
- ঘ) গ্রামে কৃষিকাটো পুর্জির প্রবেশ ঘটেছে যার ফলে ছোট চাষীরা যার খাচে। উক্ত সমস্যার সমাধান করার একটি কৃষি সমবায়।
- ঙ) কৃষকেরা সংগঠিত হতে পারেনা সিরকুরতার কারণে তাই সমবায়ের মাধ্যমে প্রশিক্ষণ দিচ্ছে।
- চ) কৃষক উপযোগী বাজারজাতকরণ পলিসি নিশ্চিত করে সমবায়।
- ছ) কৃষকদের প্রযুক্তি এবং কৃষির মানসিকতা এখনও প্রাথমিক অবস্থায় নেতৃত্বাচক। তবে সমবায় এই বৈষম্যতা দূঢ়িকরণে অপরিহার্য কৃমিকা গালন করছে।
- জ) একটি সমবায় কর্মকর্তা ও রাজনীতিবিদদের মধ্যে সতত ও জবাবদিহিতার অভাব হতে দের না।

সুপারিশ দিলেবে কিন্তু দিক নির্দেশনা কৃষি সমবায় এবং রাজনৈতিক আলোচনা।

যেহেন:

- ১) কৃষির উন্নয়নে বস্তুমেয়াদী, দীর্ঘ মেয়াদী কর্মসূচীভিত্তিক কাজ ঠিক করে একত্রে হবে এবং কৃষি মেয়াদী কর্মসূচী সরকারের কাজ থেকে আদায় করতে হবে।
- ২) পৃষ্ঠিবানকে শীকার করে নিয়েই কৃষকের সমস্যার সমাধানে কাজ করা।
- ৩) অনুপস্থিত জমির মালিকরা জমি লীজ দিয়ে থাকেন। সেক্ষেত্রে সরকার তাদের কাজ থেকে জমি ভাড়া দিয়ে প্রকৃত উৎপাদক কৃষকদের দীর্ঘ মেয়াদে লীজ দিতে পারে। এই জমি সমবায় বা কৃষি ব্যাংকের মাধ্যমে সমস্যার উন্নয়নে কাজ করা যাব।
- ৪) সম্মিলিতভাবে চাষাবাদ বা সমবায় প্রতিকার মাধ্যমে সমস্যার উন্নয়নে কাজ করা যাব।
- ৫) সমাজতান্ত্রিক রাষ্ট্র প্রটোনের মাধ্যমে পরিবর্তন সম্ভব এবং জমি-জমা সবই হবে রাষ্ট্রের। তা সমবায়ের মাধ্যমে জানঅর্জন।
- ৬) সমবায় নিশ্চিত করে বর্তমানে বাজার ব্যবহা মধ্যবতুভোগী বাজার ব্যবহা না হওয়া উচিত উৎপাদন-কোকা কেন্দ্রিক নাকার ব্যবহ।

- অন্তর্জাতিক অর্থনৈতিক পরিবর্তন অর্থনৈতিকভাবে কাজ করার আহ্বান করে সমবায়।
- স্বল্প অর্থ এবং স্বাক্ষর পরিবর্তনের জন্য দেশে বিপুরী পেশাজীবি তৈরি করতে সমবায় সহায়তা করে।

সমবায়ে খোলামেলা মত প্রকাশের জন্য আহ্বান আনানো হয় :

বেদন:

- ১) কৃষি ও কৃষককে রাজ্যে রাজনৈতিক সমস্যার কী ভূমিকা?
- ২) রাষ্ট্রের ভূমিকা
- ৩) বেসরকারি সংগঠন-ধার কৃষি ভূমি নিয়ে কাজ করার আদেশ ভূমিকা।
- ৪) গবেষক ও শিক্ষাবিদদের ভূমিকা। এবং
- ৫) কৃষকের ভূমিকা কি ইওয়া জরুরি।

02. Translate English to Bengali :

(10 Marks)

Local government institutions can barely exercise financial authority that they have to mobilize their own resources because of central dominance. As a result, they have never been financially solvent due to shortage of adequate manpower, absence of proper tax assessment, fear of losing popularity among the UP members, predominant tax evading culture, perceived weaker correlation between tax payment and service delivery, and inadequacy of sources of income etc. Therefore, they became increasingly dependent on the central government grants. Consequently, the central government tightened its hold over almost all aspects of local government. This growing dependence has become the greatest impediment to strengthening local government. Financial solvency is the sine qua non of an independent and strong local government.

Answer: কেন্দ্রীয় সরকারের কারণে হ্যানীয় সরকারি প্রতিষ্ঠানগুলো তাদের কাছে রক্ষিত সম্পদের সুষ্ঠু ব্যবহারে অর্থনৈতিক কর্তৃতৃ খুব কমই পাই। ফলস্বরূপ, অপ্রচুল যানবস্তি, সামুদায়িক নির্ধারনের অনুপস্থিতি, সদস্যদের জনপ্রিয়তা হ্যানানোর ক্ষেত্র, পূর্ব হতে চলে আসা কর, ফাঁকি কর পরিশোধ ও দেবা অন্দাদের দূরত্ব ও অপর্যাপ্ত আবেদন উৎস ইত্যাদির কারণে এরা কখনও অর্থনৈতিকভাবে সফল হচ্ছে না। এতেকরে এরা কেন্দ্রীয় সরকারে অনুদানের উপর অতি নির্ভরশীল হচ্ছে। ফলে কেন্দ্রীয় সরকার ও হ্যানীয় সরকারের সব নিকটগুলোকে শক্তভাবে ধরে রাখছে। এই অভিবর্ধিক নির্ভরশীলতা হ্যানীয় সরকারকে শক্তিশালী করার বড় বাধা হচ্ছে। স্বাধীন ও শক্তিশালী কেন্দ্রীয় সরকারের পূর্বশর্ত হলে অর্থনৈতিক নিরাপত্তা।

English - 20

(10 Marks)

03. Discuss the role of foreign remittance inflow on the socio-economic development of Bangladesh.

Answer:

"The Role Of Foreign Remittance Inflow On The Socio-Economic Development Of Bangladesh"

Introduction: Main principle of this report is to analysis and discuss on Foreign Remittance and its Impact in Socio Economic Development in different countries especially in Bangladesh. Other objectives are familiar with the remittance payment system and examine the way to overcome the remedy related with remittance transfer process. Report also discuss on to compare remittance inflows and outflows of one country's with the other countries and analysis the present condition of remittance in Bangladesh.

In Bangladesh, remittance is one of the most important economic variables in recent times as it helps in balancing balance of payments, increasing foreign exchange reserves, enhancing national savings and increasing velocity of money. For about two decades remittance has been contributing around 35% of export earning. Moreover, it is greater than foreign aid and thus helps in lessening dependence on foreign aid. Remittance gets momentum in recent time in Bangladesh and is the second largest sector of foreign exchange earnings after the garment sector. If cost of imported raw materials is deducted from the foreign exchange earning of the garments sector, remittance becomes the single largest sector of foreign exchange earning. Remittance earning is increasing day by day but at a lower rate than the increase in emigration from Bangladesh due to the increasing share of unskilled or semi-skilled labors than the Socio Economic Impact of Foreign Remittance in Bangladesh professionals in international migration. The share of remittance in GNI (Gross National Income) is increasing day by day. Remittance affects almost all the macro-economic indicators of a country positively. Though there are also negative sides of remittance earning e.g. brain drain, its overall contribution to Bangladesh economy is very much effective.

The role of remittances in the economies of labor sending countries such as Bangladesh is assuming increasing importance. It is viewed as a very stable source of foreign exchange (Ratha 2005) and even as being counter-cyclical (Esquivel and Huerta-Pineda 2006). The effect of remittances on the macro economy of a country has been well documented in the literature. The incoming foreign exchange helps receiving countries to pay import liabilities, improve their balance of payments position, strengthen foreign exchange reserves and finance external debt. At the micro level, remittances contribute towards increasing the income of receiving households with concomitant effects on the standard of living, while depending upon consumption patterns they have been known to increase the level of savings which is a source of capital. Thus, in resource scarce countries like Bangladesh remittances have a great potential to generate positive economic and social impacts. This fact has been recognized by policymakers and has received attention from researchers. However, as has been mentioned, there are hardly any studies on the microeconomic impact of remittances on household or per capita incomes. Most research has tended to be on the potential use of remittances as a policy tool and, having acknowledged its importance, on possible avenues of further increasing the volume of official remittance receipts by channeling them through legal avenues and by promoting even greater export of labor.

Remittance is the life line of Bangladesh economy. Some 4.5mn nonresident Bangladeshis are working abroad, and sending home hard earned foreign currencies. It is believed that the actual number of Bangladeshi migrants, both legal and illegal, would be close to 7.5 million. In the first 10 months of FY 2006-07, number of manpower export stood at 0.42m, showing 83.14% rise, compared to 0.25m in FY2004-05. In FY2005-06, the number stood at 0.29m, current year to year growth is around 16%. In addition to achieving higher export earnings, the country witnessed a 44 percent

growth in remittance earnings during the first quarter of 2008-09 fiscal year compared to the same period of the previous fiscal year. The other records of remittance earnings in a single month are \$820.71 million in July and \$808.72 million in March of year 2008. A total of 9,81,102 Bangladeshi people went abroad in 2007-08 fiscal year which is about 74 percent above the previous fiscal year figure, Bangladesh Bank statistics show. According to the statistics, on monthly average basis more than 81,000 Bangladeshis went abroad in 2007-08 fiscal year. The figure was 46,000 in the previous fiscal year. Non-resident Bangladeshis (NRBs) sent \$2.345 billion to Bangladesh between July and September of 2008, according to the Bangladesh Bank statistics. Meanwhile, private bank officials said the global economic slowdown, mainly in the US and European countries, is yet to impact the remittance inflow. They, however, apprehend that if the crisis continues it may have a negative impact on the inflow. The remittance market of Bangladesh has been showing a steady growth in terms of incoming remittance volume. Considering the current macro-economic indicators: it seems that this growth run will continue in the coming years. Central Bank predicts that our annual incoming foreign remittance will touch \$10 billion in the next 3 years. The reasons for such robust growth can be summarized as:

- Stable macro-economic indicators including GDP growth,
- Steady growth in manpower export specially in the middle east,
- Substantial devaluation of the local currency,
- Rapid urbanization,
- Development of new remittance corridors in Australia and part of Europe and Africa,
- Increased focus of Central Bank and the Government to channel funds through formal channels,
- Increased competition among financial institution to grab market share,
- Aggressive marketing policy adopted by Banks to increase their share of wallet,
- Expansion of branch network of various commercial banks,
- MFIs involvement in channeling remittance funds in remote areas,
- Participation in the UN peace keeping missions,
- Anti-Money Laundering rules and regulations came in force.

It can be concluded that there had been increasing trend in workers remittances during 2004 to 2010. There was also similar situation in other remittances. Country-wise remittances shows that remittances of Saudi Arabia and USA are the highest followed by UAE, Kuwait, Qatar, Italy, Oman etc. Foreign Direct Investment did not had increasing trend during the period rather it had declining trend. Average per capita GDP was Tk.30642 per year during 2004 to 2010 and average foreign remittance was \$6656 every year. Practically, there is enough scope to increase our foreign remittances by increasing manpower export through good training, good monitoring, and good advertisement and international liaison. For the expansion of technical education co-operation of recruiting agencies publicity of opportunities available in different countries are needed. Therefore,

it is very vital for the acceleration of economic growth in Bangladesh. Remittance has some problems also but they are very negligible in comparison to its overall benefit. So, government, concerned authorities and the people of Bangladesh have to take proper care about remittance considering its importance in our economy.

- 04. Translate Bengali to English :** (10 Marks)

শিক্ষার দ্বাৰা মানুষ তাৰ জ্ঞান 'ও দক্ষতাৰ বৃদ্ধি ঘটায় এবং মৃষ্টিভূমি পুনৰ্গঠন কৰে। এভাবে শিক্ষা মানুষৰ আচরণে পরিবৰ্তন আনে। মানুষৰ জীবনে তাৰ পৰিবলে তা সামাজিক, সাংস্কৃতিক, অধিবেশনিক, রাজনৈতিক বা ধৰ্মীয় যাই হোক গুরুত্বপূর্ণ প্ৰভাৱ ফৈলে। শিক্ষার সাহায্যেই মানুষ সেৱাৰ প্ৰভাৱকে ইতিবাচকভাৱে তাৰ প্ৰয়োজনে কাজে সামগ্ৰয়। আৱ আচৰণ, মৃষ্টিভূমি ও অৰ্জিত দক্ষতাৰ ওপৰ এমন একটি হাতীয়োৱা পৰিবৰ্তন আনাৰ চেষ্টা কৰে যাব যাবাবে সে সমাজৰ একজন সম্পূর্ণ মানুষে পৰিণত হয়।

Answer: Through Education people increase their Knowledge and skills and reform their attitude. In this way, education brings change in human. Environment- social, cultural, economic. Political or religious whatever it is, has a great influence on human life. Through education people utilize effects of environment positively. When necessary. Education brings a permanent change in behaviour, attitudes and skills of human being. That makes someone a perfect person.

Mathematics - 20

- 05. Three partners shared the profit in a business in the ratio 5 : 7 : 8. They had partnered for 14 months, 8 months and 7 months respectively. What was the ration of their Investments ?** (10 Marks)

Answer:

$$3 \text{ জনেৰ অনুপাত } 5 : 7 : 8$$

$$\text{নতুন অনুপাত } (\text{যাদেৰ ভিত্তিতে}) 5 \times 14 : 7 \times 8 : 8 \times 7$$

$$= 70 : 56 : 56$$

$$= 10 : 8 : 8$$

$$= 5 : 4 : 4 \text{ Ans.}$$

- 06. Mr. Rahman gave 40% of the money he had, to his wife. He also gave 20% of the remaining amount to each of his three sons. Half of the amount now left was spent on miscellaneous items and the remaining amount of Tk. 12,000 was deposited in the bank. How much money did Mr. Rahman have initially?** (10 Marks)

Answer:

ধৰি, বহুলনেৰ আছে 100 %

$$\text{গুৰুত্ব দিল } 100 \times 40\% = 40 \text{ টাকা}$$

$$\text{বাকী } 100 - 40 = 60 \text{ টাকা}$$

$$\text{প্ৰয়োগ হৈলোকে দিল } 60 \times 20\% = 12 \text{ টাকা}$$

$$\therefore 3 \text{ জন গোল } = 12 \times 3 = 36 \text{ টাকা}$$

$$\text{বাকী আছে } 60 - 36 = 24 \text{ টাকা}$$

বিবিধ খরচ করেছে $\frac{24}{2} = 12$ টাকা

কার্ড আছে $24 - 12 = 12$ টাকা

$$\therefore 12\% = 12000$$

$$\therefore 1\% = \frac{12000}{12}$$

$$\therefore 100\% = \frac{12000 \times 100}{12} = 1,00,000 \text{ Ans.}$$

General Knowledge - 20

07. Write the correct answer : (10 × 2 = 20 Marks)
- (i) Which International organization recognizes Bangladesh as a lower middle income country ?
 A) United Nations B) IMF
 C) World Bank D) UNESCO ans. C
- (ii) Who was the first captain of Bangladesh test cricket team ?
 A) Naimur Rahman B) Khaled Masud
 C) Khaled Mahmud D) Habibul Basher ans. A
- (iii) When did Nelson Mandela visit Bangladesh ?
 A) 1996 B) 1997
 C) 1998 D) 1999 ans. B
- (iv) When did Bangabandhu become a minister first?
 A) 1954 B) 1966
 C) 1969 D) 1972 ans. D
- (v) Who wrote the poem, Sadhinata Tumi ?
 A) Nirmalendu Guha B) Asad Chowdhury
 C) Shamsur Rahman D) Humayun Azad ans. C
- (vi) Who was elected US president for four consecutive terms ?
 A) Abraham Lincoln B) Franklin D. Roosevelt
 C) Thomas Jefferson D) Woodrow Wilson ans. B
- (vii) The last President of the Soviet Union was
 A) Leonid Brezhnev B) Nikita Khrushchev
 C) Mikhail Gorbachev D) Konstantin Chernenko ans. C
- (viii) The Golden Gate Bridge is
 A) Atlanta B) London
 C) Toronto D) San Francisco ans. D
- (ix) The author of the book 'The Republic' is
 A) Demosthenes B) Aristotle
 C) Plato D) Xenophon ans. C
- (x) What is the name of the currency used in Poland ?
 A) peso B) euro
 C) zloty D) peseta ans. C

UCBL

RECRUITMENT OF SENIOR OFFICER - 2014

EXAMINATION HELD ON: 2014

TOTAL MARKS: 200.

TIME: 120 MINUTES.

Part One: Multiple Choice Questions

Direction: Part-I consists of 56 MCQs. Choose the appropriate answer & fill up the circle in the OMR sheet.

Time: 50 minutes

Marks: 60

Section A:

English Proficiency

Questions (01 to 04): Read the following passage carefully and answer the questions based on it.

1 x 4 = 4

- I. Active primarily at night, and at dusk and dawn, muskrats nonetheless may be seen at any time of day in all seasons, especially spring. Excellent swimmers, these aquatic rodents spend much of their time in water. Propelled along by their slightly webbed hind feet and using their rudderlike tail for guidance, they can swim backward or forward with ease. They dislike strong currents and avoid rocky areas. Their mouths close behind protruding incisors, thus allowing them to chew underwater. They can remain submerged for long periods, traveling great distances underwater. One muskrat was filmed underwater for 17 minutes, coming to the surface for air for 3 seconds, then submerging for another 10 minutes.

Their large houses commonly contain one nesting chamber with one or more underwater entrances. Houses constructed along banks may have several chambers, each with one or more tunnels leading underwater. The houses and feeding platforms are added to as long as they are used; they usually house only one individual, though several muskrats may live together harmoniously. Food is commonly towed out to the feeding platforms, which can be distinguished from the houses by plant cuttings and other scattered debris from eating. Houses are kept immaculately clean, with litter deposited on logs and rocks outside. Droughts and flooding are common hazards faced by these rodents, causing periodic population fluctuations. Over crowding, especially when it occurs during fall or winter, causes fighting among individuals, forcing many to travel several miles overland to seek a new place to live.

Passage-এর কঠিন শব্দগুলোর অর্থ : Rodents - ভীজদণ্ড ধারী, Spend - ব্যয়, Tail - লেজ, Ease - স্বাচ্ছন্দ/আরাম, Incisor - দাঁড়াক দণ্ড (মানুষের মাড়ির উপরের ও নীচের চারটি করে আটটি দণ্ড), Chew - চিবানো, Submerged - নিমজ্জিত, Distances - দূরত্ব, Nesting - পাখির বাসা, Chamber - চেম্বার/কক্ষ, Entrance - প্রবেশিকা, Constructed - নির্মিত, Harmoniously - সুস্নেহাভাবে, Debris - ধ্বংসাবশেষ, Rocks - শিলা, Hazards - বিপদ/যুক্তি, Periodic - মেয়াদী/পর্যায়ে, Fluctuation - অক্ষিবদ্ধতা, Forcing - অভ্যাচ/বল প্রয়োগ।

01. What does the passage mainly discuss ?

- a) Animals that live near water b) Physical characteristics of the muskrat
c) Muskrat houses d) The living habits of the muskrat

Answer : Passage টি কি নিয়ে Discuss করছে ?

ans. D

02. Which of the following is not mentioned as a characteristic of the Muskrat ?

- a) Bushy tail b) Webbed feet
c) Swimming ability d) Ability to stay underwater

Answer : নিচের কোনটি Muskrat এর বৈশিষ্ট্য হিসেবে কোনটি বলা হ্যানি ?

b) হবে কারণ, 'Webbed feet' এটি Passage এর কোথাও নেই।

ans. B

Q3. How can one tell the difference between muskrat houses and feeding platforms?

- a) Houses have more chambers than feeding platforms.
- b) Houses are cleaner than feeding platforms.
- c) Feeding platforms can hold.
- d) Houses are underwater.

Answer : Muskrat এর বাসস্থান এবং খাবার Platform এর পার্শ্বক্য বোধার উপায় কি ?

ans. B

Q4. The author mentions over crowding as-

- a) being rare in muskrat houses.
- b) the reason many muskrats must relocate
- c) the reason litter surrounds the muskrat's house
- d) a cause of flooding during fall or winter

Answer : লেখক Over crowding শব্দটিকে কি হিসেবে উল্টোখ করেছেন ?

ans. B

II. **Questions (05 to 08):** Each sentence has four underlined word(s). The four underlined parts of the sentence are marked a, b, c and d. Identify the one underlined word(s) that must be changed in order for the sentence to be correct. $1 \times 4 = 4$

Q5. While the bear's vision is poor, their sense of smell is keen, enabling the remarkable bruin to smell

- a*
- b*
- c*
- d*

Answer : Question-এর কঠিন শব্দগুলোর অর্থ : Keen - প্রথম, Enabling - সক্ষিয়া করার পক্ষতি, Bruin - ভালুকের নাম বিশেষ।
বাকো Subject হলো Bear যা Singular; তাই এর Pronoun হিসেবে Their হবে না, It হবে।

ans. B

Q6. A recent study shows that selenium, a mineral found in sea food, is linked to reduce the human

- a*
- b*
- c*
- d*

Cancer risk.

Answer :

দুটি কমা (,) দিয়ে Selenium এর বৈশিষ্ট্য বলা হয়েছে। যেখানে বলা হয়েছে, একটি মিনারেল যা Sea food এ পাওয়া যায়। A mineral এর পরে Which/That হবে শব্দটি Missing আছে।

ans. B

Q7. In one type of coffee maker, a plunger is pushed down over the wet coffee grounds

- a*
- b*
- c*
- d*

to separate the beverage from the grounds.

ans. C

Answer : আপনারা জেনে গাকবেন যে, To এরপরে Verb এর Present form হয়। অপশন c) তে To এরপরে Separated

আছে যা Past form. তাই To এর পরে Separated না হয়ে, বরং Separate হবে।

Q8. A "marked deck" is one in which the backs of the playing cards have been altered slightly

- a*
- b*

to allow a player read their values illegally.

- c*
- d*

Answer : অপশন d) তে Read না হয়ে Reading হবে।

ans. D

III. **Questions (09 to 12):** In each of the following questions, a related pairs of words is followed by four pairs of words. Select the pair that best expresses a relationship similar to the one expressed in the question pair. $1 \times 4 = 4$

Q9. Communication : Message

- | | |
|-----------------------|--------------------------|
| a) humour : amusement | b) clarification : doubt |
| c) expression: words | d) radiation : cosmic |

Answer : Question-এর কঠিন শব্দগুলোর অর্থ : Communication - মোগাযোগ, Message - বার্তা, Humour - হাস্যরস, Amusement - পরিচ্ছিতি, Clarification - ব্যাখ্যা, Doubt - সন্দেহ, Expression - প্রকাশ, Words - শব্দ, Radiation - বিকিরণ, Cosmic - মহাজগতিক।

Communication মানে Message এর আদান-প্রদান। Expression এর মানে Words এর আদান-প্রদান।

ans. C

9. Fulsome : Praise

- | | |
|----------------------|--------------------------|
| a) hansom : cab | b) noisome : smell |
| c) lissome ..ovement | d) handsome : appearance |

Answer : Question-এর কঠিন শব্দগোর অর্থ : Fulsome - গর্হিত, Praise - প্রশংসা, Hansom - দুই আসন বিশিষ্ট দুই চাকার ঘোড়ার গাড়ী, Cab - গাড়ী, Noisome - ফতিকর, Smell - গন্ধ, Lissome - নমনীয়, Movement - আন্দোলন, Handsome - সুন্দর, Appearance - চেহারা।

Fulsome হলো Excessive unpleasant praise. আর, Noisome হলো Excessive unpleasant smell.

ans. B

11. Plenitude : Abundance

- | | |
|------------------------|---------------------------|
| a) augury : divination | b) perspicacity : clarity |
| c) indurate : harden | d) mulct: muzzle |

Answer : Question-এর কঠিন শব্দগোর অর্থ : Plenitude - পূর্ণতা, Abundance - পূর্ণতা, Augury - পূর্বাভাস, Divination - সঠিক অনুমান, Perspicacity - প্রজ্ঞদৃষ্টি, Clarity - প্রজ্ঞতা, Indurate - শক্ত, Harden - শক্ত, Mulct - জরিমানা, Muzzle - মুখবন্ধ।

Plenitude মানে কোন কিছুর Abundance. আর, Indurate মানে কোন কিছুর Harden.

ans.C

12. Key : Piano

- | | |
|-----------------|---------------------|
| a) wind : flute | b) oboe : saxophone |
| c) beat: drum | d) String : guitar |

Answer : Question-এর কঠিন শব্দগোর অর্থ : Flute - বাঁশি, Oboe - বাদ্যযন্ত্রবিশেষ, Saxophone - পিতলের তৈরী বাঁশি, Beat - আঘাত করা, String - সুতা (বাদ্যযন্ত্রে)।

Piano এ Key থাকে আর, Guitar এ String থাকে।

ans. D

IV. Questions (13 to 15): Each sentence below has one or more blank(s). Choose the most appropriate alternative(s) to complete/correct the following sentences. $1 \times 3 = 3$

13. In his short story, the author the complexity of modern life and the of modern man.

- | | |
|-------------------------|-----------------------------|
| a) portrays, picture | b) delineates, inclinations |
| c) depicts, predicament | d) pictures, life |

Answer : Question-এর কঠিন শব্দগোর অর্থ : Complexity - জটিলতা, Portray - চরিত্র চিত্রণকরা/প্রতিকৃতি আঁকা, Picture - ছবি, Delineate - অঙ্কিত, Inclinations - প্রবণতা, Depicts - রচিত, Predicament - বিদ্যেয়/পরিহিতি।

Sentence এর প্রথম অংশে বলা হচ্ছে, লেখক তার ছেটি গঞ্জে Modern life এর Complexity বা জটিলতার কথা বলেছেন। কাজেই বিটীয় অংশে এই জটিলতার ফলাফল প্রকাশ করে এমন Negative শব্দ থাকবে যা তধু c) , Predicament এ আছে।

ans. C

14. I could not him to attend the meeting.

- | | |
|------------------|-----------------|
| a) prevail over | b) prevail upon |
| c) prevail about | d) prevail in |

Answer :

অপশন b) এর Prevail upon মানে কাউকে কোন কিছু করতে প্রয়োচিত করা।

ans. B

15. Genetic engineering in humans should be used to..... diseases, not to.....genetic uniformity.

- | | |
|-------------------|---------------------|
| a) treat, foster | b) eradicate, cater |
| c) cure, generate | d) avoid, promote |

Answer : Question-এর কঠিন শব্দগোর অর্থ : Treat - আচারণ, Foster - পালন-পালন, Eradicate - সম্পূর্ণ উৎপাটন, Cater - পুরণ, Cure - আরোগ্য, Generate - নির্মাণ করা, Avoid - এভিয়ে চলা, Promote - অচার করা।

Genetic engineering মানুষের বোগ নির্ময় (Treat) করার কাজে ব্যবহৃত হয়।

ans. A

Questions (16 to 28): Choose the correct answer.

1.0 × 10 = 10

16. A certain stock of food items is sufficient for 40 men for 12 days. Assuming the eating capacity of all the men to be the same, find for how many days the food stock will last if an additional 15 men join the group?

- a) $8\frac{8}{11}$ b) $8\frac{1}{10}$
c) $8\frac{1}{2}$ d) $10\frac{1}{2}$

অনুবাদ: একটি নিয়মিত পরিমাণ খাবার 40 জন মাত্রে 12 দিন ধরে খাবার জন্য সমর্পিত। সবার বাস্তবাত পরিমাণ একই সত্ত্বেও এখন 15 জন আরো নিয়ে এই খাবার ক্ষমতিটি যাবে?

Answer:

40 Men eat food in = 12 days

1 Men eat food in = 12×40 days

$$55 \text{ Men eat food in} = \frac{12 \times 40}{55} = 8\frac{8}{11} \text{ days.}$$

ans. A

17. P, Q and R start a business. P invests 3.5 times as much as Q invests and Q invests one-third of what R does. If the gross profit is Tk. 1545 determine the share of P.

- a) Tk. 618 b) Tk. 309
c) Tk. 720 d) Tk. 721

অনুবাদ: P, Q এবং R একটি ব্যবসা শুরু করে। Q এক মাত্র করে P তার 3.5 গুণ মাত্র করে এবং R মাত্র মাত্র করে Q তার $\frac{1}{3}$ অগুণ মাত্র করে। যেটি profit 1545 টাকা হলে তাতে P এর অংশ কত?

Answer:

যদি, R invest করে = 1 টাকা

∴ Q invest করে = $\frac{1}{3}$ টাকা

∴ P invest করে = $\frac{1}{3} \times \frac{1}{3}$ টাকা

$$\therefore P : Q : R = \frac{1}{3} : \frac{1}{3} : 1 = 3.5 : 1 : 3 \quad [3 \text{ ঘোড়া তৃণ করে গাছ}]$$

অনুপাতের যোগফল = 7.5

$$\therefore P \text{ শাশ} = 1545 \times \frac{3.5}{7.5} = 721$$

ans. D

18. For all natural value of n, the number $n^2 + n + 3$ is-

- a) a multiple of 3 b) always odd
c) always even d) none of the above

অনুবাদ: n একটি স্বাতীবিক সংখ্যা হলে, $n^2 + n + 3$ সর্বদা কি হবে?

Answer: যদি, $n = 1, 2, 3, \dots$ তাহী,

$$n = 1 \text{ হলে} \quad n^2 + n + 3 = 1^2 + 1 + 3 = 5 \rightarrow \text{odd.}$$

$$n = 2 \text{ হলে} \quad 4 + 2 + 3 = 9 \rightarrow \text{odd \& multiple of 3.}$$

$$n = 3 \text{ হলে} \quad 9 + 3 + 1 = 15 \rightarrow \text{odd \& multiple of 3.}$$

$$n = 4 \text{ হলে} \quad 16 + 4 + 3 = 23 \rightarrow \text{odd \& not multiple of 3.}$$

সেখা যাবে প্রতিক্রিয়েই Odd আছে। তাই সঠিক উত্তর b) = always odd.

ans. B

19. The perimeter of a rectangular box is 42cm. The length is 13cm. Find its area.

- a) 112cm² b) 104cm²
c) 140cm² d) 121cm²

অনুবাদ: একটি আয়তকার বালোর পরিমিতি 42cm এবং এর দৈর্ঘ্য 13cm হলে ক্ষেত্রফল কত?

Answer :দুরি, আচত্তাকার বাজেত পথ = x এবং দেয়া আছে, মৈর্য = 13

$$\therefore \text{পরিসীমা} = 2(13 + x) = 42 \Rightarrow x = 8$$

$$\therefore \text{ক্ষেত্রফল} = 8 \times 13 = 104 \text{cm}^2.$$

ans. B

20. Sita's age is double that of Geetha's. Some years back, Geetha was 30 years younger than Sita. Find Sita's age.

a) 30

b) 60

c) 20

d) none of the above

অনুবাদঃ সীতার বয়স গীতার বয়সের দ্বিগুণ। কয়েক বছর আগে গীতা সীতার চেয়ে 30 বছরের ছোট ছিল। সীতার বয়স কত?

Answer :দুরি, গীতার বয়স = x এবং সীতার বয়স = $2x$ আবার ধরি, y বছর আগে গীতা সীতার চাইতে 30 বছরের ছোট ছিল।

$$\therefore y \text{ বছর আগে গীতা ছিল } x - y \text{ বছর এবং সীতা ছিল } 2x - y \text{ বছর।}$$

পুনরাবৃত্তে, y বছর আগে গীতা সীতার চেয়ে 30 বছরের ছোট ছিল অর্থাৎ সীতা = গীতা + 30

$$\Rightarrow 2x - y = x - y + 30 \Rightarrow x = 30.$$

$$\therefore \text{সীতার বয়স} = 2x = 2 \times 30 = 60 \text{ বছর।}$$

ans. B

21. Find the factors of the expression $x^3 - 3x^2 - x + 3$.

a) $(x - 3)(x - 1)^2$ b) $(x + 3)(x + 1)^2$ c) $(x - 3)(x - 1)(x + 1)$ d) $(x + 3)(x - 1)(x + 1)$ **Answer :**ধরি, $f(x) = x^3 - 3x^2 - x + 3$ $x = 1$ হলে $f(x) = 0$ হয়, তাই $(x - 1)$ হলে $f(x)$ এর একটি উৎপাদক (Factor)

$$x^3 - 3x^2 - x + 3$$

$$= x^3 - x^2 - 2x^2 + 2x - 3x + 3$$

$$= x^2(x - 1) - 2x(x - 1) - 3(x - 1)$$

$$= (x - 1)(x^2 - 2x - 3)$$

$$= (x - 1)(x^2 - 3x + x - 3)$$

$$= (x - 1)\{x(x - 3) + (x - 3)\}$$

$$= (x - 1)(x + 1)(x - 3).$$

ans. C

22. If $a + b + c = 0$, find the value of $\frac{a^3 + b^3 + c^3}{abc}$.

a) 3

b) 0

c) 1

d) 2

Answer : Given, $a + b + c = 0$

$$\Rightarrow a + b = -c \quad \dots \dots \dots \text{(i)}$$

$$\text{Now, } \frac{a^3 + b^3 + c^3}{abc}$$

$$= \frac{(a + b)^3 - 3abc(a + b) + c^3}{abc}$$

$$= \frac{(-c)^3 + 3abc + c^3}{abc} \quad [(\text{i}) \text{ নথি পরিবর্তন করে পাই}]$$

$$= \frac{-c^3 + 3abc + c^3}{abc} = \frac{3abc}{abc} = 3.$$

ans. A

"Know thyself"

33. Find the value of a if $27^a = 15^b$ and $3^a = 5^b$.
- 0
 - 1
 - $\frac{1}{2}$
 - 2
34. The average weight of 39 students is 30kg. By the admission of a new student, the average comes down to 29.8 kg. Find the weight of the new student.
- 22kg
 - 22.6kg
 - 31kg
 - 29.8kg
- অনুবাদঃ ৩৯ জন ছাত্রের ওজন ৩০ কেজি। নতুন একজন ছাত্র ভর্তি হওয়ায় গড় ওজন কমে ২৯.৮ কেজি হল। নতুন ছাত্রের ওজন কত?
- Answer :
- দেওয়া আছে, ৩৯ জন ছাত্রের ওজনের গড় = 30 kg
 $\therefore 39$ জন ছাত্রের ওজনের সমষ্টি = (39×30) kg = 1170kg
 আবার, নতুন একজন ছাত্রসহ ৪০ জন ছাত্রের ওজনের গড় = 29.8 kg
 $\therefore 40$ জন ছাত্রের ওজনের সমষ্টি = $(40 \times 29.8) = 1192$ kg
 \therefore নতুন ছাত্রের ওজন = $(1192 - 1170)$ kg = 22kg
35. Three consecutive even numbers are such that if the first is divided by 6, the second by 4 and the third by 7, the sum of the quotients is 38. Find the numbers.
- 22, 24, 26
 - 32, 34, 36
 - 46, 48, 50
 - 66, 68, 70

অনুবাদঃ তিনটি জোড় সংখ্যার প্রথমটিকে ৬ দিয়ে, দ্বিতীয়টিকে ৪ দিয়ে এবং তৃতীয়টিকে ৭ দিয়ে ভাগ করলে ভাগফলের যোগফল ৩৮ হয়। সংখ্যা তিনটি বের করন্ত।

Answer :

উভয়ের অপশন থেকে বের করতে হবে। এটাকে Back calculation বা, Back Solve-বলে থাকি। শেষের দিক থেকে উরু করি--

অপশন d) 66, 68, 70

$$\begin{array}{ccc} 6)66(11 & 4)68(17 & 7)70(10 \\ \underline{6} & \underline{6} & \underline{7} \\ 0 & 0 & 0 \end{array}$$

\therefore ভাগফলগুলোর যোগফল = $11 + 17 + 10 = 38$. তাহলে এটিই উত্তর।

ans. D

Section C: Analytical Ability & General Knowledge

- I. Questions (26 to 29): Answer the questions based on the following information. $2 \times 4 = 8$

From amongst six boys A, B, C, D, E and F and five girls P, Q, R, S and T, a team of six is to be selected under the following conditions:

- ❖ A and D have to be together.
- ❖ C cannot go with S.
- ❖ S and T have to be together.
- ❖ B cannot be teamed with E.
- ❖ D cannot go with P.
- ❖ B and R have to be together.
- ❖ C and Q have to be together.

Answer : প্রথমে প্রশ্নে প্রদত্ত Puzzle টিকে দেওয়া তথ্যগুলোকে Diagram এর মাধ্যমে সাজাই।

6 জন Boys \rightarrow A, B, C, D, E, F.

5 জন Boys \rightarrow P, Q, R, S, T.

এদের মধ্যে থেকে 6 জনের টীম হবে।

শর্তসমূহ

1. A & D একসাথে থাকবে $\rightarrow \boxed{AD}$
2. C & S একসাথে থাকবে না $\rightarrow \cancel{\boxed{CS}}$
3. S & T একসাথে থাকবে $\rightarrow \boxed{ST}$
4. B & E একসাথে থাকবে না $\rightarrow \cancel{\boxed{BE}}$
5. D & P একসাথে থাকবে না $\rightarrow \cancel{\boxed{DP}}$
6. B & R একসাথে থাকবে $\rightarrow \boxed{BR}$
7. C & Q একসাথে থাকবে $\rightarrow \boxed{CQ}$

এবাব তথ্যগুলোকে একসাথে করলে দাঢ়ায় = $\boxed{AD} \quad \boxed{ST} \quad \boxed{BR} \quad \boxed{CQ} \quad \cancel{\boxed{CS}} \quad \cancel{\boxed{BE}} \quad \cancel{\boxed{DP}}$

26. If there be five boys in the team, the lone girl member is

- a) P
- b) Q
- c) R
- d) S

Answer : যদি টীমে 5 জন Boys থাকে, তবে টীমের বাকি Girl কে?

POE বা Process of Elimination: এ পদ্ধতিতে শর্তগুলো ওপর ভর করে আপনি একটি একটি করে উচ্চর বাস দিবেনঃ

- a) বাস কারণ, এটি 5নং শর্ত $\boxed{D/P}$ পূরণ করেন।
- c) বাস কারণ, এটি 4নং শর্ত $\boxed{B/E}$ পূরণ করেন।
- d) বাস কারণ, এটি 2নং শর্ত \boxed{ST} পূরণ করেন।
- b) হবে কারণ, এটি 7 নং শর্ত পূরণ করেছে।

ans. B

27. If including P, the team has three girls, the members are-

- a) BCFQR
- b) ADEST
- c) ADBST
- d) BFRST

Answer : যদি P সহ টীমে 3 জন Girls থাকে তবে টীমের বাকি সদস্য---

POE বা Process of Elimination: এ পদ্ধতিতে শর্তগুলোর ওপর ভর করে আপনি একটি একটি করে উচ্চর বাস দিবেনঃ

- a) হতে পারে কারণ, এটি প্রয়োজনীয় সকল শর্ত যেমনঃ \boxed{BR} , \boxed{CQ} পূরণ করেছে।
- b) এবং c) বাস কারণ এটি 5 নং শর্ত $\boxed{D/P}$ পূরণ করেন।
- d) ও বাস কারণ এখানে এই প্রশ্নের শর্ত, P সহ Girls মোট 3 জন, পূরণ করেন। প্রশ্নে দেওয়া আছে P সহ Girls সংখ্যা 4 জন RSTP.

ans. A

28. If the team including C consists of four boys, the members of the team other than C are-

- a) ADEPQ
- b) ABDQR
- c) DEFAQ
- d) BEFRQ

Answer : C সহ যদি টীমে 4 জন Boys থাকে তবে C বাস টীমের বাকি সদস্য--

- a) বাস কারণ, এটি 5 নং শর্ত $\boxed{D/P}$ পূরণ করেন।
- d) বাস কারণ, এটি 4 নং শর্ত $\boxed{B/E}$ পূরণ করেন।
- c) বাস কারণ, এখানে C সহ Boys এর সংখ্যা 5 জন \boxed{CDEFA}
- b) হবে কারণ, এটি সব শর্ত পূরণ করেছে যেমনঃ \boxed{AD} , \boxed{BR} এবং \boxed{CQ}

ans. B

29. If four members including E have to be boys, the members other than E are-

- a) ABCQR b) ACDFQ
c) BCFQR d) ADFST

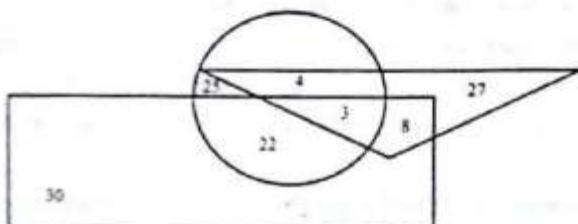
Answer : E সহ 4 জন Boys টিকের সমস্যা হলে টিকের বাকি সমস্যা..

এখন a) 4 মুঠ শর্ট [B/E] পূর্ণ করেনি তাই বাস, একইভাবে, c) বাস কাল্প এটি ৫- ৫ মুঠ শর্ট [B/E] পূর্ণ করেনি।

b) বাস কাল্প এটি পূর্ণের শর্ট পূর্ণ করেনি : যেহেতু E সহ Boys এর সংখ্যা 5 জন [ACDEF] হয়ে গাঠে। ans. D

II. Questions (30 to 33): Study the following figure carefully and answer the question given below it.
The rectangle represents artists, the circle represents players and the triangle represents doctors.

$$1.5 \times 4 = 6$$



On the basis of the diagram above, answer the following question:

বিদ্রোহ করিঃ :

Rectangle এর কেন্দ্রের স্বার্থ Artists,

Circle এর কেন্দ্রের স্বার্থ Players,

Triangle এর কেন্দ্রের স্বার্থ Doctors.

Artists, Players বা Doctors এভাবে চিহ্ন না করে আপনি ব্যাপারটি Rectangle, Circle বা Triangle খরে সমাধান করুন।

30. How many players are neither artists nor doctors?

- a) 3 b) 4
c) 8 d) none of these

Answer : Artist-এ মুঠ Doctor-এ মুঠ এমন কোন Player আছে?

শর্করা অনুযায়ী Player মাঝে Circle; এখন এই Circle এর মধ্যে এমন সংখ্যাটো মুজুন যা Rectangle বা Triangle কে স্পর্শ করেনি ; এমন সংখ্যা অনুযায়ী 25 টি আছে। ans. D

31. How many artists are players?

- a) 30 b) 29
c) 25 d) 22

Answer : Artist মেঘ মধ্যে কোন Player ?

শর্করা অনুযায়ী Artist মাঝে Rectangle আর Player মাঝে Circle এখন, Rectangle এর কেন্দ্রের Circle এর মে কোটি সংখ্যা আছে তাই উত্তর : সেখন 22 এবং 3 আছে : অর্থাৎ $22 + 3 = 25$ জন Artist হলো Player. ans. C

32. How many doctors are both players and artists?

- a) 3 b) 4
c) 8 d) 11

Answer : কোকো Doctors একই সাথে Players এবং Artists?

শর্করা, এখন বিভিন্ন ক্ষেত্রে কোকো আছে, তাই সেখন কোকো কোন সংখ্যাটো Rectangle, Circle এবং Triangle কিম্বা কোথাও আছে : সব কমন্তে 3 সংখ্যাটোই এই স্থান পূর্ণ করে :

ans. A

33. How many doctors are neither players nor artists?

- a) 30 b) 27
c) 28 d) 29

Answer : Doctor म्हणे कठजन Player-वा नाय आणि Artist-वा नाय?

Doctor याले Triangle; ताई विष्वेतो ठी असे निर्देश करत्या येणाऱ्या वृत्त वा चक्रवर्त्तेवर कोनाटिही नेही। दोघांचे विष्वेते आवधिक्षण एकप्राप्ते 27 आहे याते वृत्त वा चक्रवर्त्तेवर कोनाटिही नेही।

ans. B

III. Choose the correct answer.

34. All effective administrators are concerned about the welfare of their employees, and all administrators who are concerned about the welfare of their employees are liberal in granting time off for personal needs; therefore, all administrators who are not liberal in granting time off for their employees' personal needs are not effective administrators.
If the argument above is valid, then it must be true that-
- no ineffective administrators are liberal in granting time off for their employees' personal needs
 - no ineffective administrators are concerned about the welfare of their employees
 - some effective administrators are not liberal in granting time off for their employees' personal needs
 - all effective administrators are liberal in granting time off for their employees' personal needs

ans. D

IV. Questions (35 to 36): Choose the correct answer.

 $2 \times 2 = 4$

Each of the following problems consists of a question and two statements labeled 1 and 2. You must decide whether the data given in the statements are sufficient to answer the question. Using the data and your knowledge of everyday facts, make the appropriate choice from a to d as per the following guidelines:

- If statement 1 alone is sufficient to answer the question asked
- If statement 2 alone is sufficient to answer the question asked
- If both statements 1 and 2 together are sufficient to answer the question asked, but neither statement is alone sufficient
- If statements 1 and 2 together are not sufficient to answer the question asked and additional data are needed.

35. Which is more scientific, allopathy or homeopathy?

- Allopaths claim their system is the most scientific in the world.
 - Homeopaths claim their system is the most scientific in the world
- | | |
|----|----|
| a) | b) |
| c) | d) |

Answer :

ans. d)

36. Was Ruby's promotion a deserved one?

- Ruby's promotion did not come as a surprise to any of her colleagues.
 - Ruby is not related to any director of the company
- | | |
|----|----|
| a) | b) |
| c) | d) |

Answer :

ans. a)

V. Questions (37 to 56): Choose the correct answer.

 $0.5 \times 20 = 10$

37. Which Indian state is located towards the north of Sylhet?

- | | |
|----------------|-------------|
| a) West Bengal | b) Meghalay |
| c) Assam | d) Mizoram |

ans. B

38. What is the length of Cox's Bazar sea - shore?
 a) 125 km b) 155 km
 c) 165 km d) 195 km ans. 120
39. Where does Rakhain tribe mainly live?
 a) Rangamati b) Cox's Bazar
 c) Mymensingh d) Patuakhali ans. B
40. When was the drama 'Nil Darpan' published?
 a) 1819A.D b) 1860A.D
 c) 1900A.D d) 1912A.D ans. B
41. Bir Srestha Martyred Naik Munshi Abdur Rouf was born in -
 a) Bhola b) Jessore
 c) Faridpur d) Noakhali ans. C
42. Which was the first Muslim Country giving recognition to Bangladesh?
 a) Malaysia b) Senegal
 c) Iraq d) Iran ans. C
43. What is SARS?
 a) One kind of pneumonia b) Yellow fever (kalazar)
 c) One kind of influenza d) Bird Flue ans. D
44. To whom the constitution of Bangladesh has given the responsibility about the fulfillment of basic rights of people?
 a) Sessions Judge b) High Court
 c) Supreme Court d) Appellate Division ans. C
45. Which country surrendered unconditionally during the World War III?
 a) Germany b) France
 c) Japan d) Austria ans. A
46. The Headquarter of FAO is located in -
 a) New York b) Washington
 c) Rome d) Paris ans. C
47. Ain-i-Akbari is written by -
 a) Ferdousi b) Ghalib
 c) Abul Fazal d) Iqbal ans. C
48. Grand Prix is associated with -
 a) Lawn Tennis b) Boxing
 c) Volleyball d) Golf ans. B
49. In MS-Excel, the summations of the cells D1, D2, D3, D4 equals -
 a) $= \sum(D1 : D2 : D3 : D4)$ b) $= \text{sum}(D1 : D4)$
 c) $= \text{sum}(D1 : D4)$ d) $= (D1 : D4)$ ans. B
50. The saltiest sea is -
 a) Arabian sea b) Mediterranean sea
 c) Red sea d) Dead sea ans. D
51. 'Land of Midnight Sun' is the name given to -
 a) Norway b) Sweden
 c) Denmark d) Dublin ans. A
52. Decibel is a unit of -
 a) light b) sound
 c) heat d) electricity ans. B

53. A sudden fall in barometer reading indicates -

- a) clear weather
- b) hailstorm
- c) Storm
- d) heavy rainfall

ans. C

54. Zero was invaded by

- a) Indians
- b) Egyptians
- c) Greeks
- d) None of these

ans. A

55. The major constituent of air is -

- a) Oxygen
- b) Carbon dioxide
- c) Hydrogen
- d) Nitrogen

ans. D

56. Enzymes help in

- a) respiration
- b) digestion of food
- c) immune system
- d) reproduction

ans. B

PART TWO :**DESCRIPTIVE QUESTIONS**

01. Translate into English.

[05]

ব্যবসা-বাণিজ্যের প্রসার এবং বৃক্ষি প্রশমনে শক্তিশালী বীমা খাতের গুরুত্ব অপরিসীম। বীমা খাতের আইন ও কাঠামোগত সংকারের লক্ষ্যে বীমা উন্নয়ন ও নিয়ন্ত্রণ কর্তৃপক্ষ বিভিন্ন উদ্যোগ গ্রহণ করেছে। বীমা শিল্পে শৃঙ্খলা আনার লক্ষ্যে ইতিমধ্যে বেশ কয়েকটি বিধি ও প্রবিধি প্রস্তুত করা হয়েছে। বিদিমালাসমূহ যথাযথভাবে প্রতিপাদনের ব্যাপারে কর্তৃপক্ষের নজরদারি বৃদ্ধি করা হয়েছে। অপরদিকে আন্তর্জাতিক অভিভাবক বিনিয়য়ের লক্ষ্যে ইতিমধ্যে কয়েকটি আন্তর্জাতিক সম্মেলনের আয়োজন করা হয়েছে।

Answer: A potential insurance sector is very important to expand business and trade and to reduce risk. Insurance development and controlling authority has taken many initiatives to change insurance laws and infrastructure. To bring discipline in this sector law, rules and sub rules already has made. To obey rules properly, attention of authority has increased on its hand to exchange international experience; few international meetings have been arranged.

02. Write a short note on "Beauty of simple living".

[10]

"Beauty of simple living".

Answer : It is true that beauty lies on the eyes of the beholder. So beauty has many definitions. In terms of simple living, it has many phases too. There is a saying that many men many minds. Different people observe beauty of simple living differently for example our religious leaders define it one way where as to world richest person define it another way. Clearly a day laborer thinks his simple living lies in managing daily necessity timely. On contrast the rich people find a simple time in luxuries. To be frank, both ideal is not proper definition of simple life. simple life is not being rich or poor, rather a proper balance of life style by keeping in mind one's ability and position. If one earns Tk. 100 daily but plans to expense Tk. 101, one will not enjoy beauty of living. Same is true for rich people who are busy in consuming everything beauty of life lies in happiness and maintaining a proper logical and social norms.

03. "Government should give priority on building physical infrastructure rather than on developing human resources in the early stages of economic development" – Do you agree or disagree? Justify through your arguments. [10]
04. A pipe is turned on to fill water into a cistern at the rate of 4 liters per minute. The cistern has a leak which would empty it in 6 hours and the cistern is now emptied in 10 hours. Determine the capacity of the cistern.
05. If I walk at the rate of 4 kmph I miss the train by 10 minutes. If I walk at the rate of 5 kmph, I reach 5 minutes before the arrival of the train. How far is the station from my house assuming that I start walking from my house?

Answer :

Let, the distance of the station from my house is = x km.

$$\text{Here, total time} = 5 + 10 = 15 \text{ minutes} = \frac{15}{60} = \frac{1}{4} \text{ hour.}$$

According to the question,

$$\frac{x}{4} - \frac{x}{5} = \frac{1}{4}$$

$$\Rightarrow \frac{5x - 4x}{20} = \frac{1}{4}$$

$$\Rightarrow x = \frac{20}{4}$$

$$\therefore x = 5$$

Alternate Solution:

Let,

Distance = D km

$$\frac{D}{4} - \frac{10}{60} = \frac{D}{5} + \frac{5}{60}$$

$$\Rightarrow \frac{D}{4} - \frac{D}{5} = \frac{5}{60} + \frac{10}{60}$$

$$\Rightarrow \frac{5D - 4D}{20} = \frac{5 + 10}{60}$$

$$\Rightarrow D = \frac{15 \times 20}{60}$$

$$\therefore D = 5$$

[Let, exact time is 12, if we are late by 10 minutes it is certainly 12.10; if we are 5 minutes earlier it is 11.55; that's why 10 is deduced, 5 is added by converting it in hour]

06.

In the figure, $PS = SQ = RS$ and $\angle P = 30^\circ$. Find x .

Answer :

$$PS = RS$$

$$\therefore \angle SPR = \angle SPR = 30^\circ$$

$$\therefore \angle PSR = 120^\circ$$

$$\text{So, } \angle QSR = 60^\circ$$

$$\text{Here, } SQ = RS$$

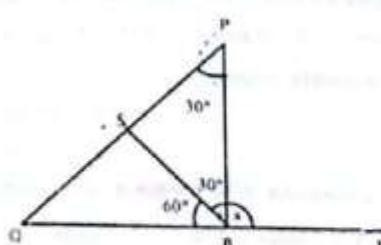
$$\text{So, } \angle SQR = \angle SRQ$$

$$\text{So, } \angle QSR = 60^\circ$$

$$\therefore \angle SQR = \angle SRQ = 60^\circ$$

$$\therefore \angle x = 180^\circ - (60^\circ + 30^\circ)$$

$$= 180^\circ - 90^\circ = 90^\circ$$



RAJSHAHI KRISHI UNNAYAN BANK
RECRUITMENT TEST FOR -SENIOR OFFICER-2014
EXAMINATION HELD ON: 22.11.2014
TOTAL MARKS: 200; TIME : 2 HOURS

Part One: Multiple Choice Questions: Time: One Hour; Marks: 100
 (One mark for each correct answer and 0.25 to be deducted for each wrong answer)

Section A:

Bangla

Question (01 to 15): Choose the correct answer:

01. 'বাঙালীর ইতিহাস' -বইটির লেখক কে?

- a) নীহার রঞ্জন রায়
- b) আর সি মজুমদার
- c) আবদুল কাদির
- d) সুনীতি কুমার চট্টোপাধ্যায়

ans. A

02. অপলাপ শব্দের অর্থ কি?

- a) অসদালাপ
- b) অধীকার
- c) মিথ্যা
- d) গ্রলাপ

ans. B

03. প্রত্যয়গতভাবে তত্ত্ব কোনটি?

- a) উৎকর্ষ
- b) উৎকৃষ্ট
- c) উৎকৃষ্টতা
- d) উৎকর্ষ

ans. C

04. 'তিনি অত্যন্ত দরিদ্র কিন্তু অজ্ঞাকরণ খুব উদার' কোন বাক্যের উদাহরণ?

- a) জটিল বাক্য
- b) মিশ্র বাক্য
- c) সরল বাক্য
- d) যৌগিক বাক্য

ans. D

05. নীচের কোন বাক্যটি তত্ত্ব?

- a) সে এমন ক্লপসী যেন অল্পৰী
- b) সে এমন ক্লপবতী যেন অল্পৰা
- c) সে এমন ক্লপবতী যেন অল্পৰী
- d) সে এমন ক্লপসী যেন অল্পৰা

ans. B

06. 'সৌভাগ্যের বিষয়' কথাটিকে কোন বাণিধারা দিয়ে বোঝানো হয়েছে?

- a) কেউকেটা
- b) একাদশে বৃহস্পতি
- c) এলাহী কান্ত
- d) গোফ খেঁজুরে

ans. B

07. 'সংশ্লেষণ' -ভাষ্যটি অবগুহিত

- a) চারম ও কারমকলা ইনসিটিউটে
- b) ঢাকা বিশ্ববিদ্যালয়ের কলা ভবনের সামনে
- c) জাহাঙ্গীরনগর বিশ্ববিদ্যালয়ে
- d) ঢাকা বিশ্ববিদ্যালয়ের টিএসসির সামনে

ans. C

08. যে ব্যক্তির দুর্ঘাত সমান চলে তাকে কি বলে

- a) সোহাতি
- b) সব্যসাচী
- c) পরভর্তুকা
- d) ধিজ

ans. B

09. কোর্মা কোন দেশী শব্দ?

- a) পতুরীজ
- b) ফাসী
- c) তুরী
- d) কোনটিই নয়

ans. C

10. কোনটি তত্ত্ব শব্দ?

- a) চৌল
c) নকশা
b) সূর্য
d) পগল

ans. A

11. সূর্য -এর প্রতিশব্দ-

- a) সুধাংত
c) আদিত্য
b) শশাঙ্ক
d) বিশু

ans. C

12. 'শৈবাল দীঘিরে বলে উচ্ছ করি শির: পিষে রেখ, এক ফোটা নিলেম শিপির' এ অংশটি বুল মূল প্রতিপাদ্য বিষয়-

- a) প্রতিদান
c) অকৃতজ্ঞতা
b) প্রত্যক্ষকার
d) অসহিষ্ণুতা

ans. C

13. মুজিব নগর স্মৃতিসৌধের ছপতি-

- a) মইনুল হোসেন
c) এফ, আর, থান
b) তানভীর কবির
d) মুণ্ডল হক

ans. B

14. 'পৃষ্ঠে মতি হোক' বাক্যে 'পৃষ্ঠে' কোন পদজগৎ ব্যবহৃত হয়?

- a) বিশেষজ্ঞপ
c) বিশেষণের বিশেষণজগৎ^প
b) বিশেষণজগৎ^প
d) সর্বনামজগৎ^প

ans. A

15. সমাস ভাষাক্রমে-

- a) বিকৃত করে
c) অর্থবোধক করে
b) সংক্ষেপ
d) ভাষাজগৎ সুন্ম করে

ans. B

Section B: English Proficiency

Q. (16-20): Read the following passage carefully and answer the questions based on it.

One of the great delusions of present times is the prevailing belief that we are more civilized than our ancestors. At no other period of the history of mankind has the word 'civilization' been so often misused and misunderstood, it is not in the abundance of material alone that civilization lies. Neither does it consist of the advance of scientific knowledge, however amazing that may be. The inventions and discoveries of science have undoubtedly brought unheard of blessings and contorts to us. But they are not civilization is a special way of human behavior, of thought and feeling. The essential quality of civilization lies in the spirit of man, in his attitude to himself, to his fellowmen and to life as a whole. Looking everywhere around us today, you will find that man has made no progress since the dawn of history, in his attitude towards his fellowmen. On all the highest pillars in the cities of the world, you will find the figure of conqueror or a general soldier. We know far more about our killers and destroyers than about our saviours and saints. The heroes of war are die heroes of the world.

Passage-এর কठিন শব্দসমূহ অর্থ : Ancestors - পূর্বপুরুষ, Abundance - আনুর্ধ্ব, Contort - দোচড় ক্ষেত্র।

16. Who are the heroes of the world?

- a) Teachers
c) Warriors
b) Saints
d) Prophets

অর্থ: Heroes of the world কে?

Answer:-

Passage টির শেষ বাক্যে বলা হয়েছে "The heroes of the war are the heroes of the world. তাই Warriors. ans. C

17. What have scientific inventions given to mankind?

- a) Destructive weapons b) Civilization
 c) Blessings and comforts d) Wealth

প্রশ্ন: Scientific Invention-গোলো মানব জাতিকে কি দিয়েছে?

Answer:-

Passage টির চতুর্থ বাক্যে বলা হয়েছে যে, Science have undoubtedly brought unheard blessings & comforts to us. তাই উত্তর হবে blessings & comforts

ans. C

18. A vital quality of civilization depends upon—.

- a) competitive spirit of man b) man's desire to conquer nature
 c) attitude of man towards his fellowmen d) management of resources

প্রশ্ন: সভ্যতার Vital quality কিসের উপর নির্ভর করে?

Answer:-

Passage টির সপ্তম বাক্যে লেখক প্রথমেই বলেছেন যে, The essential quality of civilization lies in the spirit of man, in his attitude to himself, to his fellowmen and to life as a whole তাই উত্তরটি হবে c).

ans. C

19. Who should be our heroes?

- a) Politicians b) Saints and saviors
 c) Conquerors d) Great men of history

প্রশ্ন: আমদের Hero হওয়া উচিত কানেক্ষে?

Answer:-

Passage টির শেষ দিক থেকে বিভিন্ন বাক্যে লেখক বলেছেন, We know far more about our killers and destroyers than about our saviours and saints. অর্থাৎ আমরা Killers এবং Destroyers সেরই মনে রাখি, আসলে মনে রাখা উচিত Saviors & Saints সেব।

ans. B

20. What is civilization according to the author?

- a) Another form of affluence b) Inventions and discoveries
 c) Way of human behavior, thought and feeling d) Possession of goods

প্রশ্ন: লেখকের মতে, 'Civilization' কি?

Answer:-

Passage টির ৬ নং বাক্যে বলা হয়েছে যে, civilization is a special way of human behavior, of thought and feeling. তাই Civilization বলতে লেখক (c) নং উত্তরকেই বুঝিয়েছে।

ans. C

Q. (21-25): Each sentence has four underlined word(s). The four underlined parts of the sentence are marked a, b, c and d. Identify the one underlined word(s) that must be changed in order for the sentence to be correct.

21. If one plans to hike in the backcountry, you should prepare for the possibility of encountering a bear.

a b c d

Answer :

এই শব্দের অধ্যমে Subject হিসেবে One আছে, তাই, পরে Subject হিসেবে You না হয়ে One হবে।

ans. B

22. A couturier who works in the field of women's fashion designed original models for his customers and

a b c

also produces a fairly limited number of copies.

d

Answer :

বাক্যের অর্থ: তিনি Couturier যিনি মাঝীদের ফ্যাশনের ক্ষেত্রে কাজ করেন, তার কাস্টমারদের জন্য অবিজিনেল মডেল তৈরী করেন এবং শুধু নগল্য সংখ্যাক কপি করেন।

ans. C

23. It is extremely important and essential to keep accurate financial records that are clear, simple and

a b c

practical.

d

Answer :

Important & Essential শব্দ মুটির একই অর্থ। কাজেই and essential বেশী আছে বলে বাদ যাবে।

বাকের অর্থঃ সঠিক অর্থনৈতিক মনিষণ্ডি সুস্পষ্ট, সহজ-সরল ও প্রয়োগিক রাখা অত্যন্ত গুরুত্বপূর্ণ।

ans. B

24. Electronic mail to describe an upcoming workshop should used only if potential participants use this

a b c

form of communication regularly.

d

ans. A

25. The sounds of speaking language do not always match up with the symbols of written language.

a b c d

Answer :

বাকের অর্থঃ লেখা ভাষার চিহ্নগুলির সাথে কথ্য ভাষার ধরনগুলি সব সময় সাদৃশ্যপূর্ণ হয়না।

ans. A

**Q. (26-30): In each of the following questions, a related pairs of words is followed by four pairs of words.
Select the pair that best expresses a relationship similar to the one expressed in the question pair.**

26. STICKLER: INSIST

- | | |
|---------------------|---------------------|
| a) Trickster: risk | b) Braggard: boast |
| c) Haggler: concede | d) Laggard: outlast |

Answer : Question-এর কঠিন শব্দগুলোর অর্থ : Stickler -নিয়মানুবর্তী, Insist -জিদ করা,জোর করা, Trickster -প্রতারক, Risk -ক্ষেত্র, Boast -স্বীকার, Concede -স্বীকার, Laggard -অলস, Outlast -অধিকতর হায়ী হওয়া।

Stickler-এর বৈশিষ্ট হলো Insist করা, আর, Braggard-এর বৈশিষ্ট হলো Boast (স্বীকার করা)।

ans. B

27. DELICATE: FASTIDIOUS

- | | |
|---------------------------|-----------------------------|
| a) Deceptive : false | b) Hardworking : diligent |
| c) Altruistic : mercenary | d) Demonstrative : effusive |

Answer : Question-এর কঠিন শব্দগুলোর অর্থ : Delicate -সূক্ষ্ম, Fastidious -ঘৃতখুঁতে, Deceptive -বিভ্রান্তিকর, False -মিথ্যা, Hardworking -পরিশ্রমী, Diligent -পরিশ্রমী, Altruistic -স্বার্থপর, Mercenary -বেতনভোগী, Demonstrative -নির্দেশক, Effusive -নির্গমনশীল।

Fastidious সাধারণত Delicate হন; আর, Diligent সাধারণত Hardworking হন।

ans. B

28. PERJURY: OATH

- | | |
|--------------------|--------------------------|
| a) Disrespect: age | b) Embezzlement: trust |
| c) Jury: vow | d) Plagiarism: authority |

Answer : Question-এর কঠিন শব্দগুলোর অর্থ : Perjury -শপথ ভঙ্গ, Oath -শপথ, Disrespect- অসম্মান, Embezzlement -অর্থ আহতাদ, Jury -জুরি, Vow -ত্রুতি।

Perjury হলো Oath ভঙ্গ করা, আর, Embezzlement হলো trust ভঙ্গ করা

ans. B

29. MUSTER: CREW

- | | |
|------------------|-----------------------|
| a) Dismiss: jury | b) Demobilize: |
| c) Cheer: team | d) Convene: committee |

Answer : Question-এর কঠিন শব্দগুলোর অর্থ : Muster -অড়, Crew -কলাকুশনী, Dismiss -খারিজ, Demobilize -অবাহতি, Troops -সেনা।

Crew -(কলাকুশনী)দের একত্রিত করাই হলো Muster. আর, committee-(সদস্য)দের একত্রিত করাই হলো Convene. ans. D

30. TIRADE: ABUSIVE

- a) Encomium: laudatory
c) Monologue: lengthy

b) Critique:

d) Aphorism: boring

Answer : Question-এর কঠিন শব্দগোর অর্থ : Tirade -সুনির্দিষ্ট বক্তৃতা, Abusive -অবমাননাকর, Encomium -অতি উচ্চ অশংসা, Laudatory -প্রশংসাপূর্ণ, Critique -সমালোচনা, Insolent -দাঙ্কিক, Monologue -নাটকাদি, একান্তিক, Lengthy -লম্বা, Aphorism -বানী, Boring -বিবর্তিকর।

Tirade হলো Abusive (অবমাননাকর)সমার্থক; আর, Encomium হলো laudatory (প্রশংসাপূর্ণ)সমার্থক।

ans. A

Q. (31-35): Each sentence below has one or more blank(s). Choose the most appropriate alternative(s) to complete/correct the following sentences.

31. The _____ of time had left the castle _____, it towered high, looking much the same as it must have done centuries ago.

- a) repairs, destroyed
c) lack, defended
- b) ravages, untouched
d) status, lonely

Answer: Question-এর কঠিন শব্দগোর অর্থ : Castle - দুর্গ, Towered high - মাথা উঁচু করে দাঢ়ানো, Ravages - ধ্বংস বা নষ্ট করা, Defended - প্রতিরোধ করা।

বাক্যের অর্থঃ যুগ যুগ ধরে সময়ের ধ্বংসাত্মক পরিণাম দৃঢ়ত্বে স্পর্শ করতে পারেনি বরং দৃঢ়ত্ব সময়কে জয় করে অক্ষত অবস্থায় দাঢ়িয়ে আছে।

32. The child was so _____ by her indulgent parents that she pouted and became _____ when she did not receive all their attention.

- a) protected, insecure
c) Sheltered, elated
- b) pampered, tranquil
d) spoiled, sullen

Answer : Question-এর কঠিন শব্দগোর অর্থ : Pampered -অদুরে, Tranquil -প্রশান্ত, Sheltered -আশ্রিত, Elated -গর্বিত, Spoiled -পয়সাল, Sullen - বিরূপ।

ans. D

33. The _____ pittance that the destitute receive from the government cannot keep them from _____.

- a) meager, poverty
c) indulgent, desolation
- b) meticulous, despair
d) small, crime

Answer : Question-এর কঠিন শব্দগোর অর্থ : Pittance -সামান্য বেতন, Destitute -নিচৰ, Meager -সামান্য, Meticulous -অতিসতর্ক, Despair -হতাশা, Indulgent -অন্যথা, Desolation -নির্জনতা।

বাক্যের অর্থঃ যে Meager পরিমাণ বেতন সরকারের কাছ থেকে Destitute এহণ করে তা তাকে দারিদ্র্য হতে রক্ষা করতে পারে না।

ans. A

34. We were amused that a man who had so far been the most _____ of public speakers could _____ the audience and bring them cheering to their feet.

- a) masterful, bore
c) accomplished, humour
- b) entralling, anger
d) pedestrian, electrify

Answer : Question-এর কঠিন শব্দগোর অর্থ : Amused -আহোম, Cheering -হার্মানি, Masterful -উচ্চত, Entralling - উত্তেজনাপূর্ণ, Anger -রাগ, Accomplished -সম্পূর্ণ, Humour -খবর/হাস্যরস, Pedestrian -পথচারী, Electrify -বৈদ্যুতিকরণ।

বাক্যের অর্থঃ আমরা অবাক হয়েছিলাম যে, একজন ব্যক্তি যিনি এয়াবৎ বক্তাদের মধ্যে সরবচাইতে সাধারণ ছিলেন, তিনি কিভাবে পরিশেষ সর্বকদের অভ্যন্তর উত্তেজিত করতে এবং দর্শকদেরকে দাঢ়িয়ে করতালি নিয়ে তাকে অভিনন্দন জানাতে।

ans. D

35. The _____ of evidence was on the side of plaintiff since all but one witness testified that his story was _____.

- a) propensity, far-fetched
c) accuracy, insufficient
- b) preponderance, correct
d) paucity, accurate

Answer : Question-এর কঠিন শব্দগোর অর্থ : Plaintiff -বানী, Propensity -প্রবৃত্তি, Preponderance -অধীক্ষত ভাবী, Paucity -অন্তর্নি।

ans. B

Section C: Mathematics

Q. (36-55): Choose the correct answer.

36. If $(16)^{2x+3} = (4)^{3x+6}$ then $x = ?$
- a) -3 b) -1
 c) 1 d) 0

অনুবাদ: যদি $(16)^{2x+3} = (4)^{3x+6}$ হয় তবে $x = ?$

Answer:

$$\begin{aligned}(16)^{2x+3} &= (4)^{3x+6} \\ \Rightarrow (4)^{2(2x+3)} &= 4^{3x+6} \\ \Rightarrow 4x+6 &= 3x+6 \\ \Rightarrow 4x-3x &= 6-6 \\ \therefore x &= 0.\end{aligned}$$

ans. D

37. A Company employs 15 persons, each working 44 hours a week. If 4 persons are absent, how many hours a week would the rest of the persons have to work to make up the time lost?

- a) 48 b) 45
 c) 56 d) 50

38. A trader dealing in pressure cookers reduced the price by 20% as a result of which his sale went up by 80%. What is the net effect of his sales income?

- ১) 44% increase b) 44% decrease
 c) 66% increase d) 64% increase

অনুবাদ: একজন Pressure cooker ব্যবসায়ী তার পর্যায়ের সাথে 20% কমালো। এর ফলে তার বিক্রয় 80% বেড়ে গেল। এতে তার Net income এ কি Effect হল?

Answer:

ধরি, সে 100টি Pressure cooker বিক্রয় করে এবং
প্রতিটি Cooker এর দাম 100 টাকা

এখন বিক্রয়মূল্য $= 100 \times 100 = 10,000$ টাকা
এখন বিক্রয়মূল্য 20% কমালো Selling Price হবে 80 টাকা।

অপরদিকে বিক্রয় 80% বেড়ে গেল Selling এর পরিমাণ বেড়ে দাঁড়াবে $= 100 + (100 \times \frac{80}{100}) = 180$ টি
এখন বিক্রয়মূল্য হবে $= 180 \times 80 = 14,400$ টাকা
অতএব, Net Income effect $= \frac{14400 - 10000}{10000} = 44\%$.

ans. B

39. At present, father's age is 4 times more than that of his son. 6 years ago father's age was 10 times more than that of his son. What is the present age of father and son?

- a) 32 and 8 years b) 36 and 9 years
 c) 40 and 10 years d) 48 and 12 years

অনুবাদ: পিতার বয়স পুরো বয়সের চাইতে 4 গুণ বেশি। 6 বছর পূর্বে পিতার বয়স পুরো বয়সের 10 গুণ ছিল। পিতা ও পুরো বয়স কত?

Answer:

ধরি, পুরো বয়স $= x$ বছর

তাহলে পিতার বয়স $4x$ বছর

অন্তর্মতে, $10(x - 6) = 4x - 6$

$$\Rightarrow x = 9$$

$$\therefore \text{পিতার বয়স} = 4x = 9 \times 4 = 36.$$

ans. B

40. Anis, who owns $\frac{200}{3}\%$ of a factory, sells half of his share for Tk. 33,333. The value of the entire factory is -
 a) Tk. 99,999
 b) Tk. 66,666
 c) Tk. 9,999
 d) Tk. 133,332

অনুবাদ: আনিস একটি Factory'র শতকরা $\frac{200}{3}\%$ শতাংশের মালিক। সে তার অংশের অর্ধেক 33,333 টাকায় বিক্রি করল। সম্পূর্ণ Factory'র মূল্য কত?

Answer:

$$\text{আনিসের মালিকানা হচ্ছে Factory'র } \frac{200}{3}\% = \frac{200}{3 \times 100} = \frac{2}{3} \text{ অংশের}$$

$$\text{সুতরাং, } \frac{2}{3} \text{ এর } \frac{1}{2} \text{ অংশ } = \frac{1}{3} \text{ অংশ}$$

$$\text{অর্থাৎ আনিস } \frac{1}{3} \text{ অংশ বিক্রি করে } = 33,333 \text{ টাকায়$$

$$\therefore \text{আনিস } 1 \text{ বা (সম্পূর্ণ) অংশ বিক্রি করে } = (33,333 \times 3) = 99,999 \text{ টাকায়।}$$

41. A man walked 2 miles east, then 2 miles south, then again 4 miles east and finally 10 miles north. How far did he walk from the starting point? ans. A

- a) 7
 b) 8
 c) 9
 d) 10

অনুবাদ: একজন লোক প্রথম 2 মাইল পূর্বে, পরের 2 মাইল দক্ষিণে, পরে আবার 4 মাইল পূর্বে গেল এবং শেষে 10 মাইল উত্তরে গেল। যেখান থেকে সে যায়া দক্ষ করেছিল, সেখান থেকে সে কতদূর হাঁটল?

Answer:

চিত্রে লক্ষ্য করি, Starting Point হলো A বিন্দু এবং Ending point হলো C বিন্দু।

আমরা পাই,

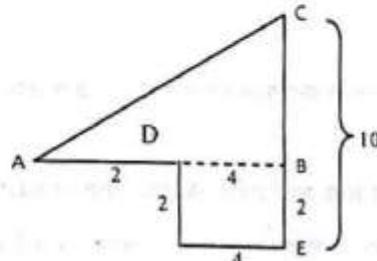
$$AB = AD + BD = 2 + 4 = 6$$

$$BC = CE - BE = 10 - 2 = 8$$

$$AC^2 = 8^2 + 6^2 = 64 + 36 = 100$$

$$\Rightarrow (AC)^2 = 10^2$$

$$\therefore AC = 10.$$



ans. D

43. A book sells for Tk. 65. This price gives the seller a profit of 30% on his cost. What will be the new selling price if he cuts his profit to 10% of its cost?

- a) 50
 b) 45
 c) 60
 d) 55

অনুবাদ: একটি বই 65 টাকায় বিক্রি হয়। এই বিক্রয়মূল্য বিক্রেতাকে তার ক্রয়মূল্যের উপর 30% মুনাফা দেয়। সে তার মুনাফা কমিয়ে 10% এ সামিটে আসলে নতুন বিক্রয়মূল্য কত হবে?

Answer:

30% লাভে,

বিক্রয়মূল্য $100 + 30 = 130$ টাকা হলে ক্রয়মূল্য = 100 টাকা

$$\therefore \text{বিক্রয়মূল্য } 65 \text{ টাকা হলে ক্রয়মূল্য } = \frac{100 \times 65}{130} = 50 \text{ টাকা।}$$

$$\therefore 10\% \text{ লাভে নতুন বিক্রয়মূল্য হবে } = 50 + 50 \text{ এবং } 10\% = 50 + (50 \times \frac{10}{100}) = 55 \text{ টাকা।}$$

ans. D

43. The value of a fraction is $\frac{2}{5}$. If the numerator decreased by 2 and the denominator increased by 1, the resulting fraction is equivalent to $\frac{1}{4}$. Find the numerator of the original fraction.

- a) 8
 b) 6
 c) 4
 d) 3

অনুবাদ: একটি ভ্রাইশ $\frac{2}{5}$, যার অংশের Numerator(শব্দ) 2 কয়ে এবং Denominator(শব্দ) 1 বাড়ে তখন ভ্রাইশটি হবে $\frac{1}{4}$ । তবে, একটি ভ্রাইশটির কত?

Answer:

বেহেসু, ভ্রাইশের ঘন $\frac{2}{5}$ তাই,

$$\text{মনেকরি, ভ্রাইশটি} = \frac{2x}{5x}$$

প্রস্তাবিত,

$$\frac{2x - 2}{5x + 1} = \frac{1}{4}$$

$$\Rightarrow 8x - 8 = 5x + 1$$

$$\therefore x = 3$$

$$\therefore \text{মূল ভ্রাইশের Numerator} = 2x = 2 \times 3 = 6.$$

ans. B

- 44.** What is the largest number of mangoes not exceeding 440 that can be distributed among three persons in the proportions 5:6:7?

- a) 436 b) 420
c) 440 d) 432

অনুবাদ: তিনজন বালিকে 5 : 6 : 7 অনুপাতে কিছু আয় বিতরণ করতে হবে। আমের সংখ্যা 880 এর বেশি হওয়া যাবে না। এগুলো এই অনুপাতে তিন বালিকের মধ্যে সর্বোচ্চ কয়টি আয় বিতরণ করা যাবে?

Answer:

$$5 : 6 : 7 \text{ এর ল.স.গ.ৰ.} = 210$$

$$\text{সূতরাং, } 210 \times 2 = 420 \text{ টি আয় সর্বোচ্চ বিতরণ করা যাবে। কারণ } 210 \times 3 = 630 \text{ সংখ্যাটি আমের সংখ্যা 880 \text{ এর চেয়ে বেশি।}$$

ans. B

- 45.** A motorcycle costs Tk. 2500 when it is brand new. At the end of each year it is worth $\frac{4}{5}$ of what it was at the beginning of the year. What is the motorcycle worth when it is 3 years old?

- a) Tk. 1,430 b) Tk. 1,340
c) Tk. 1,280 d) Tk. 1,000

Answer:-

প্রস্তাবিত,

$$\text{প্রথম বছর শর্ট মূল্য মোড়াট} = 2500 \times \frac{4}{5} = 2000 \text{ টাকা।}$$

$$\text{দ্বিতীয় বছর শর্ট মূল্য মোড়াট} = 2000 \times \frac{4}{5} = 1600 \text{ টাকা।}$$

$$\text{তৃতীয় বছর শর্ট মূল্য মোড়াট} = 1600 \times \frac{4}{5} = 1280 \text{ টাকা।}$$

ans. C

- 46.** In a survey, 30% of the people surveyed owned a personal computer and 75% owned a cellular telephone. If 25% owned both a cellular telephone and a personal computer, then the percentage of the people who does not have either of the instrument?

- a) 20% b) 25%
c) 30% d) 40%

Answer:

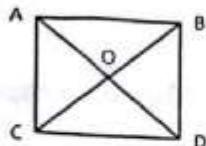
Formula: Total = All single - Both + None

$$\Rightarrow 100\% = 30\% + 75\% - 25\% + \text{None}$$

$$\therefore \text{None} = 100\% - 80\% = 20\%.$$

ans. A

47. In square ABCD below, what is the value of $\frac{(AC)(AD)}{(AB)(DC)} = ?$



- a) 2
b) $\frac{1}{2}$
c) $\sqrt{2}$
d) 1

ans. C

Answer:-

চিত্রে ABCD একটি বর্গ। AD ও BC হলো বর্গাভিন্ন কর্ণ।

$$\frac{(AC)(AD)}{(AB)(DC)} = ?$$

মনেকরি, AB = AC = DC = BD = 1.

তাহলে কর্ণের সূর্যানুযায়ী, কর্ণ $= \sqrt{1^2 + 1^2} = \sqrt{2}$ [বর্গের কর্ণ $= \sqrt{a^2 + a^2}$]

$$\therefore \frac{(AC)(AD)}{(AB)(DC)} = \frac{1 \times \sqrt{2}}{1 \times 1} = \sqrt{2}.$$

48. $\sqrt{x\sqrt{y\sqrt{z}}} = ?$

- a) $x^2 y^4 z^8$
b) $x^{\frac{1}{2}} y^{\frac{1}{2}} z^{\frac{1}{2}}$
c) $\sqrt{x}\sqrt{y}\sqrt{z}$
d) $x^{\frac{1}{2}} y^{\frac{1}{4}} z^{\frac{1}{8}}$

ans. D

Answer:-

$$\begin{aligned} & \sqrt{x\sqrt{y\sqrt{z}}} \\ &= \sqrt{x} \sqrt{y \times z^{\frac{1}{2}}} \\ &= \sqrt{x \times \left(y \times z^{\frac{1}{2}}\right)^{\frac{1}{2}}} \\ &= \sqrt{x \times y^{\frac{1}{2}} \times z^{\frac{1}{4}}} \\ &= \left(x \times y^{\frac{1}{2}} \times z^{\frac{1}{4}}\right)^{\frac{1}{2}} \\ &= x^{\frac{1}{2}} y^{\frac{1}{4}} z^{\frac{1}{8}}. \end{aligned}$$

49. Which of the following is not equivalent to $25x^2 = y^2 - 4$?

- a) $x^2 = (y^2 - 4) / 25$
b) $25x^2 = (y + 2)(y - 2)$
c) $75x^2 = 3y^2 - 12$
d) $5x = y - 2$

Answer:-শর্করা পদ্ধতিঃ $25x^2 = y^2 - 4$

$$\begin{aligned} d) \quad x^2 &= \frac{y^2 - 4}{25} & b) \quad 25x^2 &= (y + 2)(y - 2) & c) \quad 75x^2 &= 3y^2 - 12 \\ \Rightarrow 25x^2 &= y^2 - 4 & \Rightarrow 25x^2 &= y^2 - 4 & \Rightarrow 3 \times 25x^2 &= 3(y^2 - 4) \\ \Rightarrow 25x^2 &= y^2 - (2)^2 & \Rightarrow 25x^2 &= y^2 - 4 & \Rightarrow 25x^2 &= y^2 - 4 \end{aligned}$$

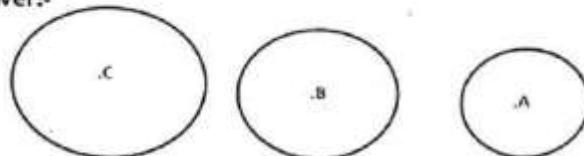
কিন্তু a) $5x = y - 2$ থেকে কোনোভাবেই $25x^2 = y^2 - 4$ মান বের করা সম্ভব না।

50. There are 3 circles A, B and C ($C > B > A$). Area of the circle A is 100 Square Inch and B is 50% of C and 200% of A. What is the area of C?

- a) 400 Sq Inch b) 300 Sq Inch
c) 200 Sq Inch d) 800 Sq Inch

অনুবাদ: A, B, C নামের তিনটি বৃত্ত আছে ($C > B > A$)। A'র ক্ষেত্রফল 100 বর্গইঞ্চি এবং B'র ক্ষেত্রফল C'র ক্ষেত্রফলের শতকরা 50 ভাগ এবং A'র ক্ষেত্রফলের শতকরা 200 ভাগ। C এর ক্ষেত্রফল কত?

Answer:-



যেহেতু B'র ক্ষেত্রফল A'র ক্ষেত্রফলের শতকরা 200 ভাগ।

$$\therefore A' \text{র ক্ষেত্রফল } 100 \text{ বর্গইঞ্চি হলে } B' \text{র ক্ষেত্রফল} = 200\% \text{ of } 100 = 2 \times 100 = 200 \text{ বর্গইঞ্চি}$$

অন্যদিকে, এই 200 বর্গইঞ্চি হলো C এর 50% অর্থাৎ $\frac{1}{2}$ ক্ষেত্রফলের সমান।

$$\text{অতএব } C \text{ এর সম্পূর্ণ ক্ষেত্রফল} = 200 \times 2 = 400 \text{ বর্গইঞ্চি।}$$

ans. A

51. A boat goes 13 km upstream (against current) in 39 minutes. The speed of stream (current) is 3 km/hr. What is the speed of the boat in still water?

- a) 20 km/hr b) 23 km/hr
c) 27 km/hr d) 17 km/hr

অনুবাদ: স্রোতের বিপরীতে একটি নৌকা 39 মিনিটে 13 কিমি যায়। স্রোতের বেগ 3 km/h হলে হিলে পানিতে নৌকার বেগ কত?

Answer:-

স্রোতের বিপরীতে 39 মিনিটে যায় 13 কিমি।

$$\therefore \text{স্রোতের বিপরীতে } 1 \text{ ঘণ্টা বা } 60 \text{ মিনিটে যায়} = \frac{13 \times 60}{39} = 20 \text{ কিমি।}$$

অর্ধাং নৌকার বেগ - স্রোতের বেগ = 20 কিলোমিটার

$$\begin{array}{rcl} \text{এবং} & \text{স্রোতের বেগ} & = 3 \text{ কিলোমিটার} \\ \text{নৌকার বেগ} & & = 23 \text{ কিলোমিটার} \end{array}$$

ans. B

52. Mr. Tamal purchased stocks for Tk. 1500 and sold $\frac{2}{3}$ of it after its value doubled. He sold the remaining stock at 5 times of its purchase price. What is the total profit?

- a) Tk. 6,000 b) Tk. 3,000
c) Tk. 2,500 d) Tk. 2,000

অনুবাদ: তমাল মোট 1500 টাকার Stock কিনল এবং দাম দিতে হবার পর তার $\frac{2}{3}$ অংশ Stock বিক্রি করে নিল। পরে সে বাকি Stock কিন তার জয়মূলের 5 গুণ মূল্যে বিক্রি করল। মোট কত লাভ হলো?

Answer:-

$$1500 \times \frac{2}{3} = 1000 \text{ টাকার Stock বিক্রয় করে} = 1000 \times 2 = 2000 \text{ টাকা।}$$

$$\text{বাকি } 500 \text{ টাকার Stock যে বিক্রয় করে} = 500 \times 5 = 2500 \text{ টাকা।}$$

$$\text{তাহলে মোট বিক্রয়মূল্য} = 2000 + 2500 = 4500 \text{ টাকা।}$$

$$\begin{array}{rcl} \text{দেখা আছে, মোট জয়মূল্য} & = 1500 \text{ টাকা} \\ \hline \end{array}$$

$$\therefore \text{মোট লাভ} = 3000 \text{ টাকা।}$$

ans. B

53. The daily rate for a hotel room having 4 beds is Tk.390 for one person and X taka for each additional person. If 3 people take the room for one day and each pays Tk.210 for the room, then what is the value of X?

- a) 120 b) 240
c) 80 d) 60

Answer:-

দেওয়া আছে,

প্রথম জন দিবে = 390 টাকা এবং

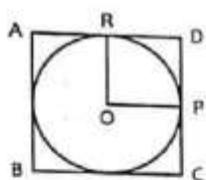
মনেকরি, বাকি দুইজনের প্রত্যেকে দিবে = X টাকা করে

$$\text{তাহলে } 390 + 2x = 3 \times 210$$

$$\therefore x = 120.$$

ans. A

54. In the picture area of the square ABCD is 196 square miles, O is the center of the circle. What will be the area of the circle in square miles?



- a) 49π b) 144π
c) 64π d) 100π

অনুবাদ: চিত্রে ABCD বর্গক্ষেত্রে O কেন্দ্র বিশিষ্ট একটি বৃত্ত আছে। বর্গের ক্ষেত্রফল 196 বর্গমাইল। বৃত্তের ক্ষেত্রফল কত?

বর্গের ক্ষেত্রফল 196 বর্গমাইল

Answer:-

বর্গক্ষেত্রের একবাহুর দৈর্ঘ্য = $\sqrt{196} = 14$ মাইল

চিত্রানুসারী, বর্গক্ষেত্রের বাহু = বৃত্তের ব্যাস = 14 মাইল

$$\therefore \text{বৃত্তের ব্যাসার্ধ} = \frac{14}{2} = 7 \text{ মাইল}$$

$$\therefore \text{বৃত্তের ক্ষেত্রফল} = \pi(7)^2 = 49\pi.$$

ans. A

55. An employee pays 3 workers - X, Y and Z. a total of Tk.610 in a week. X is paid 125% of the amount Y is paid and 80% of the amount Z is paid. How much does X make a week?

- a) Tk.180 b) Tk. 200
c) Tk.150 d) Tk.175

Answer:-

যদি Z 100 টাকা পায় তবে, X পাবে = 80% of 100 = 80 Tk.

$$\text{আবার, } X = 125\% \text{ of } Y = \frac{5Y}{4}$$

$$\Rightarrow 5Y = 4X = 4 \times 80 = 320$$

$$\therefore Y = \frac{320}{5} = 64.$$

$$\therefore X + Y + Z = 80 + 64 + 100 = 244$$

এখন, তিনজন 244 টাকা পেলে X পায় = 80 টাকা

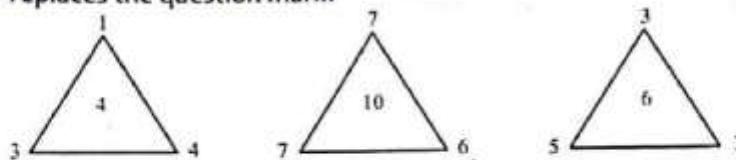
$$\therefore \text{তিনজন } 1 \text{ টাকা পেলে } X \text{ পায়} = \frac{80}{244} \text{ টাকা}$$

$$\therefore \text{তিনজন } 610 \text{ টাকা পেলে } X \text{ পায়} = \frac{80 \times 610}{244} = 200 \text{ টাকা}$$

ans. B

Q (56-59): Choose the Correct answer.

56. Which number replaces the question mark?



- a) 10
c) 8

- b) 9
d) 4

ans. D

Answer:-

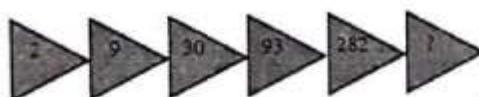
উপরের ত্রিভুজগুলির শীর্ষ বিন্দু তিনটির যোগফলকে মধ্য বিন্দু দিয়ে ভাগ করলে সব সময় 2 পাওয়া যায়। দেখুন

$$\text{প্রথম ত্রিভুজের ক্ষেত্র } (3 + 4 + 1) \div 4 = 2$$

$$\text{দ্বিতীয় ত্রিভুজের ক্ষেত্র } (7 + 6 + 7) \div 10 = 2$$

$$\text{তৃতীয় ত্রিভুজের ক্ষেত্র } (3 + 5 + x) \div 6 = 2 \Rightarrow x = 4.$$

57. Which number replaces the question mark?



- a) 439
c) 849

- b) 555
d) 373

Answer:-

$$2 \rightarrow 9 \rightarrow 30 \rightarrow 93 \rightarrow 282 \rightarrow ?$$

এই সংখ্যা হতে 1ম সংখ্যার পার্থক্য যথাক্রমে 7, 21, 63, 189 যা আরেকটি Series মেনে চলছে।

Series টি হলোঃ $7 \times 3^{n-2} + \text{পূর্ববর্তী সংখ্যা} = \text{পরবর্তী সংখ্যা}$

$$\text{দ্বিতীয় সংখ্যাটি} = 7 \times 1 (3^0) + 2 = 9$$

$$\text{চতুর্থ সংখ্যাটি} = 7 \times 3^2 + 30 = 93$$

$$\text{ষষ্ঠ সংখ্যাটি} = 7 \times 3^4 + 282 = 849$$

$$\text{তৃতীয় সংখ্যাটি} = 7 \times 3^1 + 9 = 30$$

$$\text{পঞ্চম সংখ্যাটি} = 7 \times 3^3 + 93 = 282$$

ans. C

58. Find out the missing number in the following series.

$$31, 29, 24, 22, 17, \underline{\hspace{1cm}}$$

- a) 12
c) 14
- b) 13
d) 15

Answer:-

Series টি হলো 31, 29, 24, 22, 17 পূর্ববর্তী সংখ্যাটি হতে পরবর্তী সংখ্যাটির পার্থক্য 2 ও 5 করে পার্থক্য 2, 5, 2, 5 এভাবে হবে।

$$\text{ফলে আমরা } 17 \text{ পরবর্তী সংখ্যাটি পাব } 17 - 2 = 15$$

ans. D

59. Look at letter pattern and choose the correct option.

JAK, KBL, LCM, MDN,

- a) NEO
c) PFQ
- b) MEN
d) OEP

Answer:-

শেষের Pattern টি লক্ষ্য করি, JAK, KBL, LCM, MDN

এই Pattern টির প্রথম অক্ষরগুলোর দিকে একটি লক্ষ্য করলে সহজেই পরবর্তী Letter বের করা যায়।

J, K, L, M, ... তাহলে পরবর্তী Letter হবে N. আর শেষের Option-গুলোর মধ্যে উত্তু (a) তেই N দিয়ে ভরা হয়। তাই অন্যান্যগুলো দেখার প্রয়োজন নেই।

ans. A

- Q. (60 - 65): Answer the questions based on the following information.**
- A farmer has three fields, 1, 2 and 3, and is deciding which crops to plant. The crops are F, G, H, I & J.
- F will grow only in fields 1 and 3, but in order for F to grow it must be fertilized with X.
- G will grow in fields 1, 2, and 3, but in order for G to grow, fertilizer X must not be used.
- H will grow in fields 1, 2, and 3 but in order for H to grow in field 3, it must be fertilized with Y.
- I will grow only in fields 2 and 3, but in order for I to grow in field 2 it must be sprayed with pesticide Z, and in order for I to grow in field 3, it must not be sprayed with Z.
- J will grow only in field 2, but in order for J to grow, H must not be planted in the same field.
- All crops are planted and harvested at the same time. More than one crop may be planted in a field.

একজন Farmer এর 1, 2 এবং 3 নামে 3টি Field আছে। এই Field গুলোতে সে F, G, H, I & J নামের 5টি Crop Grow করতে চায়।

শর্তগুলো নিম্নরূপঃ

- F Crop টি শুধু Field 1 & 3 তে Grow করা যাবে এবং F উৎপাদনের জন্য অবশ্যই X সার লাগবে।
- G Crop টি 1, 2 & 3 Field এ Grow করা যাবে এবং G উৎপাদনের জন্য X সার ব্যবহার করা যাবে না কিন্তু Y বা Z ব্যবহারে অসুবিধা নেই।
- H Crop টি 1, 2 & 3 তে Grow করা যাবে কিন্তু 3য় Field এ H Grow করতে Y সার লাগবে।
- I Crop টি 2 ও 3 নং Field এ Grow করা যাবে কিন্তু 2 নং Field এ I Grow করতে Z লাগবে না অর্থাৎ X বা Y ব্যবহার করতে অসুবিধা নেই।
- J Crop টি শুধু 2য় Field এ Grow করা যাবে কিন্তু J Grow করলে যেখানে H grow করা যাবে না অর্থাৎ J, H এক সাথে Produce করা যাবে না।

60. It is possible to grow which of the following pairs of crops together in field 1?

- | | |
|--------------------|------------------------|
| I. F and G | II. G and H |
| III. F and H | IV. H and J |
| a) I and II only | b) I and III only |
| c) II and III only | d) I, II, and III only |
- ans. C

61. It is possible for which of the following groups of crops to grow together in field 2?

- | | |
|----------------|----------------|
| a) G, H, and J | b) F, H, and I |
| c) F, G, and H | d) G, I, and J |
- ans. D

62. Which of the following is a complete and accurate listing of all crops that will grow alone in field 2 if the only pesticide or fertilizer used is Y?

- | | |
|------------|----------------|
| a) F and H | b) F |
| c) G and H | d) G, H, and J |
- ans. C

63. Which of the following pairs of crops will grow together in field 3 if no other crops are planted in the field and no fertilizers or pesticides are applied?

- | | |
|------------|------------|
| a) F and I | b) F and H |
| c) G and H | d) G and I |
- ans. D

64. What is the maximum number of different crops that can be planted together in field 3?

- | | |
|------|------|
| a) 4 | b) 2 |
| c) 3 | d) 1 |
- ans. C

65. Which of the following is a complete and accurate list of the crops that will grow alone in field 2 if X is the only pesticide or fertilizer applied?

- | | |
|---------|---------|
| a) I, H | b) I, J |
| c) I, G | d) H, J |
- ans. নেই

Section E: General Knowledge

Q. (66-80): Choose the correct answer.

66. Which street is famous for newspapers?

- a) Wall Street
- b) Broadway
- c) Downing Street
- d) Fleet Street

ans. D

67. The book "Das Kapital" was written by _____

- a) William Shakespeare
- b) Charles Dickens
- c) Karl Marx
- d) G. B. Shaw

ans. C

68. Insulin is secreted in

- a) Pituitary
- b) Pancreas
- c) Kidney
- d) Liver

ans. B

69. "Bolometer" is used to measure _____

- a) Velocity
- b) Temperature
- c) Frequency
- d) Wavelength

ans. B

70. BIMSTEC stands for _____

- a) Bay of Bengal Initiatives for Multi Sectoral Technical and Economic Cooperation
- b) Bangladesh, India, Malaysia, Singapore, Thailand Economic Cooperation
- c) Bangladesh, India, Myanmar, Singapore, Thailand Economic Cooperation
- d) Bay of Bengal Integration for Multi-cultural Scientific, Technical and Eco-friendly Center

ans. A

71. The second Nobel laureate in Asia was _____

- a) Rabindranath Tagore
- b) S. Chandrasekhar
- c) Amartya Sen
- d) C. V. Raman

ans. D

72. What is the main function of White Blood Cells (WBC)?

- a) To carry nutrients
- b) To give strength
- c) To carry oxygen
- d) To combat infections

ans. D

73. Which country is bordered by both the Atlantic and Indian Ocean?

- a) China
- b) India
- c) Japan
- d) South Africa

ans. D

74. Who is the first woman president in the world?

- a) Imelda Marcos
- b) Srimavo Bandaranayake
- c) Isabela Peron
- d) Pratibha Patil

ans. C

75. The old name of Switzerland is _____

- a) Deutschland
- b) Helvetia
- c) Rhodesia
- d) Salisbury

ans. B

76. Logarithm tables were invented by _____

- a) John Doe
- b) John Douglas
- c) John Harrison
- d) John Napier

ans. D

77. Paris is situated on the bank of the river _____

- a) Volga
- b) Seine
- c) Amsteele
- d) Hudson

ans. B

78. The tribe "Hajong" mainly lives in _____

- a) Sylhet and Rangamati
- b) Cox's Bazar and Bandarban
- c) Rangpur and Dinajpur
- d) Mymensingh and Netrokona

ans. D

79. The Ozone layer restricts _____

- a) Visible light
- b) Ultraviolet radiation
- c) X-rays and gamma Rays
- d) Infrared radiation

ans. B

80. Who obtained 500 wickets in test cricket for the first time?

- a) Shane Warne
- b) Courtney Walsh
- c) Muttiah Muralidharan
- d) Wasim Akram

ans. B

PART TWO Descriptive Questions

Section A: English Proficiency

01. Translate in to English.

সৌর বিদ্যুৎ ব্যবহারে গত এক দশকে বাংলাদেশে বৈপ্লবিক পরিবর্তন ঘটে গেছে। দেশের প্রায় দুই কোটি মানুষ বর্তমানে সৌরবিদ্যুৎ ব্যবহারের মাধ্যমে বিদ্যুৎ সুবিধা পাচ্ছে। সরকারী মালিকানাধীন প্রতিষ্ঠান ইনফ্রাস্ট্রাকচার ডেভেলপমেন্ট কোম্পানী লিঃ এর হিসাব অনুযায়ী, দেশে বর্তমানে বাড়ি ভিত্তিক সৌরবিদ্যুৎ প্যানেলের সংখ্যা ৩৫ লাখ। তখন সৌর বিদ্যুৎ নয়, নবায়নযোগ্য বিভিন্ন প্রকৃতিক উৎস কাজে সাধিয়ে ফুলানী ব্যবহারও আছে চেয়ে অনেক বেড়েছে। দিন দিন বেড়েই চলেছে এর চাহিদা। এই অবস্থার নবায়নযোগ্য ও পরিবেশবান্ধব শক্তির উৎস ও শক্তির বিভিন্ন ব্যবহার নিয়ে রাজধানীতে "শ্রীন এনার্জি এক্সপোর্ট" শীর্ষক এক প্রদর্শনীও হতে দেখা গেল।

Answer:-

In the last decade a revolutionary change has happened in the use of solar power in Bangladesh. At present around two crores people of Bangladesh are getting electricity-facilities using solar power. According to the study of a state owned institution Infrastructure Development Company Limited, there are 35 lacs home based solar power panel in the country now. Not only solar power, the use of fuel, by utilizing different renewable natural sources, has also increased a lot more than the past. Demand of this is increasing day after day. In this situation, an exhibition named "Green Energy Export" regarding the sources and environment friendly energy and their variety of uses was seen to be held in the capital.

02. Write a short note 'A Memorable Day in your life'.

Section B: Bengali

03. Translate in to Bengali.

Our Constitution starts with three words: 'We. The People'. The words are simple but mighty. They are also revolutionary in nature. They are mighty because they signify the collective mind of the nation. They are revolutionary because they represent a glorified moment of the Bengali Nation's commitment for oneness. This oneness develops into an image of a document which we call the constitution.

Answer:-

আমাদের সংবিধান তিনটি শব্দ নিয়ে তৈরি। "আমরা। সকল নাশ্বরিকেরা"। শব্দগুলি সাধারণ কিষ্ট শক্তিশালী। প্রকৃতিগত ভাবেও তারা বৈপ্লবিক। তারা শক্তিশালী কারণ তারা একটি জাতির সমষ্টিগত বিবেককে বৃক্ষায়। শব্দগুলি বৈপ্লবিক কারণ তারা বাসালি জাতির একটি মহিমামূল্য কথকে নির্দেশ করে একক ধাকার প্রতিজ্ঞাকে। এই একতা এহম একটি মালিকিক তিত তৈরী করেছে যাকে আমরা বলি সংবিধান।

04. 'কৃষি উন্নয়নে ব্যাংকের ভূমিকা' বিষয়ে বাল্লায় একটি রচন লিখুন।

Answer:-

05. আপনার এলাকায় রাজশাহী কৃষি উন্নয়ন ব্যাংকের শাখা খোলার অনুরোধ জানিয়ে যথাযথ কর্তৃপক্ষ ব্যবাধিরে একটি আবেদনপত্র লিখুন।

Answer:-

২২.১১.২০১৮

ব্যবাধি,

ব্যবস্থাপনা পরিচালক

রাজশাহী কৃষি উন্নয়ন ব্যাংক

প্রধান শাখা, রাজশাহী।

বিষয় কানসাটি আপনার ব্যাংকের একটি শাখা খোলার জন্য আবেদন।

জনাব,

বিনীত নিবেদন এই যে, আমরা রাজশাহী বিভাগের কানসাটি উপজেলার অধিবাসী। এই উপজেলায় প্রায় ৫ হাজার লোকের বাস যাদের প্রায় ৮৫% কৃষি কাজের সাথে জড়িত। রাজশাহী বিভাগের মোট কৃষিজ্ঞাত পন্থের একটি বিবাটি অশেই এই উপজেলা হতে সরবরাহ করা হয়। কিন্তু ইদানিঃ লক্ষ্য করা যাচ্ছে যে, বৈজ্ঞানিক যন্ত্রপাতির অভাব ও অর্থনৈতিক দুর্দশার কারণে সভাবনাময় এই কৃষকরা তাদের চাষাবাদ চালিয়ে যেতে পারছে না। অধিকসংখ্যামূলক মহাজনের কাছ থেকে ঢাঢ়া সুন্দর খণ্ড নিয়ে সহজ-সরল এই কৃষকরা সর্বশ্রেষ্ঠ হ্যারাক্ষেছে। ফলে তারা আজ দেনার দায়ে জরুরিত। রাজশাহী কৃষি উন্নয়ন ব্যাংকের একটি শাখা খোলার জন্য খুবই প্রয়োজন হোও করছি। রাষ্ট্রের একটি বিশেষায়িত ব্যাংক হিসেবে রাজশাহী কৃষি উন্নয়ন ব্যাংক এই উপজেলায় একটি শাখা খুললে এই কৃষকদেরকে আব গ্রামীণ সুস্থিরের মহাজনের কাছে ঢাঢ়া সুন্দর খণ্ড নিতে হবে না।

অতএব, আপনার কাছে আমাদের আকুল আবেদন এই যে, ওপরের পরিস্থিতি বিবেচনা করে এই উপজেলায় একটি শাখা খুলতে আপনার মর্জিই হয়।

বিনীত নিবেদক

কানসাটি উপজেলাবাসী

Section C: Mathematics

06. A trader bought some mangoes for Tk. 150 per dozen and an equal number of apples for Tk. 100 per dozen. If he sells all the fruits for Tk. 140 per dozen, what be his profit/loss in percentage?

Answer:-

১ ডজন বা ১২ টি আবের দাম = ১৫০ টাকা

$$\therefore 1 \text{ টি আমের দাম} = \frac{150}{12} \text{ টাকা}$$

১২ টি আপেলের দাম = ১০০ টাকা

$$\therefore 1 \text{ টি আপেলের দাম} = \frac{100}{12} \text{ টাকা}$$

$$2 \text{ টি ফলের দাম } (1 \text{ টি আম} + 1 \text{ টি আপেল}) = \left(\frac{150}{12} + \frac{100}{12} \right) = \frac{250}{12} \text{ টাকা}$$

১২ টি ফলের বিক্রয়মূল্য = ১৪০ টাকা

$$\therefore 2 \text{ টি ফলের বিক্রয়মূল্য} = \frac{140 \times 2}{12} = \frac{280}{12} \text{ টাকা}$$

$$\therefore \text{লাভ হয়েছে} = \left(\frac{280}{12} - \frac{250}{12} \right) = \frac{30}{12} \text{ টাকা}$$

$$\therefore \text{শতকরা লাভ হয়েছে} = \frac{\frac{30}{12}}{\frac{250}{12}} \times 100 = \frac{30}{12} \times \frac{12}{250} \times 100 = 12\%$$

07. Two partner A and B have 70% and 30% shares respectively in a business. After sometimes, a third partner C joined the business by investing Tk. 10 lakh and thus having 20% share in the business. What percentage is the A's share now in the business?

Answer:-

দেওয়া আছে, C বিনিয়োগ করে ১০,০০০০০ টাকা যা অংশিদারের মোট বিনিয়োগের ২০%

$$\therefore 100\% \text{ বিনিয়োগ} = \frac{1000000 \times 100}{20} = 50,00,000 \text{ টাকা}$$

আবার, C এর ১০,০০০০০ টাকা বিনিয়োগের পূর্বে মোট বিনিয়োগ ছিল = (৫০,০০,০০০ - ১০,১০,১০০) = ৪৯,৯৯,৯০০ টাকা

$$\therefore A \text{ এর } \frac{9}{10} = 49,99,900 \times \frac{9}{10} = 44,99,910 \text{ টাকা}$$

$$\therefore A \text{ এর } \frac{9}{10} \text{ বিনিয়োগের } \frac{100}{500000} = 96\%$$

08. The average weight of three men A, B & C is 84 Kg. Another man D joins the group and the average becomes 80 Kg. If another man E, whose weight is 3 Kg. more than that of D, replaces A, then average weight of B, C, D & E becomes 79 Kg. What is the weight of A?

Answer:-

A, B & C এর গড় ওজন = ৮৪ কেজি

$$\therefore \text{তাদের মোট ওজন} = 84 \times 3 = 252 \text{ কেজি}$$

D সহ তাদের ওজনের গড় = ৮০ কেজি

$$\text{মোট ওজন} = 80 \times 4 = 320 \text{ কেজি}$$

$$\therefore D \text{ এর ওজন} = (320 - 252) = 68 \text{ কেজি}$$

E, D এর চেয়ে ৩ কেজি বেশি, E এর ওজন = ৬৮ + ৩ = ৭১ কেজি

B, C, D, E এর গড় ওজন = ৭৯ কেজি

তাদের মোট ওজন = ৭৯ × ৫ = 395 কেজি

$$\therefore B + C \text{ এর ওজন} = B + C + D + E = 395$$

$$\Rightarrow B + C = 395 - (68 + 71) = 256 \text{ কেজি}$$

$$\therefore A \text{ এর ওজন} = (A + B + C \text{ এর বয়স}) - (B + C \text{ এর বয়স}) = 252 - 256 = 6 \text{ কেজি।}$$

09. If $\sqrt[3]{8x^2 \sqrt{32x\sqrt{4x^2}}} = 4$, then find the value of x.

Answer:-

$$\sqrt[3]{8x^2 \sqrt{32x\sqrt{4x^2}}} = 4$$

$$\Rightarrow \sqrt[3]{8x^2 \sqrt{32x\sqrt{(2x)^2}}} = 4$$

$$\Rightarrow \sqrt[3]{8x^2 \sqrt{64x^2}} = 4$$

$$\Rightarrow \sqrt[3]{8x^2 \sqrt{(8x)^2}} = 4$$

$$\Rightarrow \sqrt[3]{8x^2 \times 8x} = 4$$

$$\Rightarrow \sqrt[3]{64x^3} = 4$$

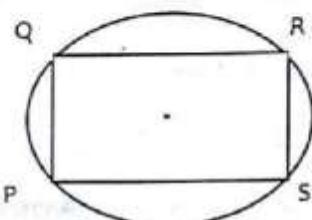
$$\Rightarrow \sqrt[3]{(4x)} = 4$$

$$\Rightarrow 4x^3 \times \frac{1}{3} = 4$$

$$\Rightarrow 4x = 4$$

$$\therefore x = 1$$

10. In the figure, rectangle PQRS is inscribed in the circle and $PQ = 6$. If the area of the rectangular region is 48, what is the area of the circular region?



Answer:-

চতুর্ভুজের ক্ষেত্রফল ($PQ \times RQ$) = 48

$$\therefore 6 \times RQ = 48$$

$$\Rightarrow RQ = \frac{18}{6} = 8$$

বৃত্তের ক্ষেত্রফল = πr^2 [r = ব্যাসার্ধ]

চতুর্ভুজের কর্ণ PQ বা QS বৃত্তের ব্যাস

∴ পীঁপাগোরাসের উপপাদ্য অনুযায়ী,

$$(PQ)^2 = (PQ)^2 + (RQ)^2 = (6)^2 + (8)^2 = 36 + 64 = 100$$

$$\therefore PQ = 10$$

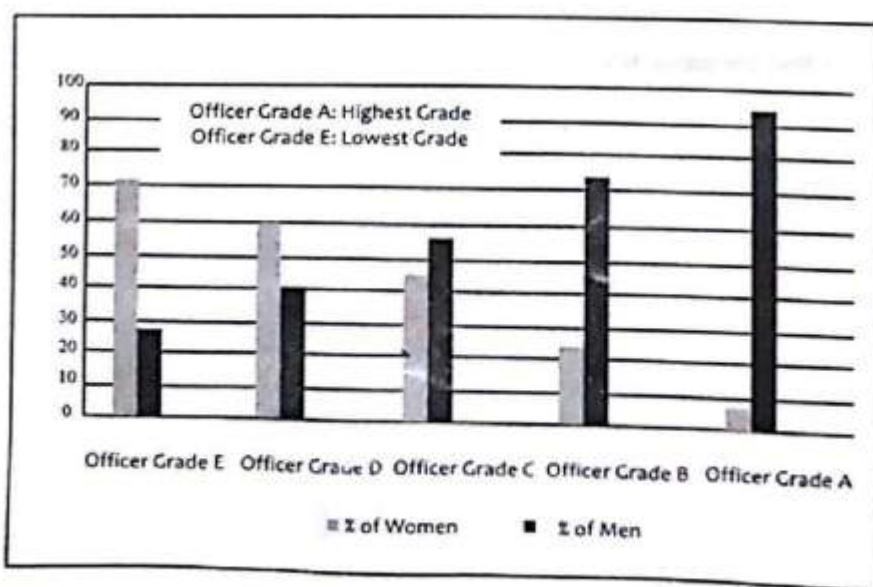
$$\text{ব্যাসার্ধ} = \frac{\text{ব্যাস}}{2} = \frac{10}{2} = 5$$

$$\therefore \text{বৃত্তের ক্ষেত্রফল} = \pi r^2 = 25\pi$$

Section D: Data Analysis

- II. Write a report within 250 words describing the information shown in the graph.

Figure: Executives positions in the XYZ Oil Company.



Answer:-

Given graph describes positions of man and women in the XYZ Oil company. There are five grade starting from A to E. Grade A indicates highest position where as grade E advert lowest position.

If we have a look on the graph we see, at the very beginning, very significant difference between the position of A- greatly dominated by men about 95% and the position of E- women hold more than 70% position. In a participation of women is very titular around 7% though the difference of number of executives in grade C and D is quite lower, more specifically about 57% and 47%. women in grade C and 40% men 60% women in grade D. Interestingly D is the only grade where women's positions is higher.

Another significant trend is also noticeable. Positions of men in executive role from grade A to grad E is decreasing the lower position the fewer number of men.

However, The higher the position the fewer the number of women in executive role, about 71%, 60%, 45%, 25%, 7% from grade E to grade A respectively.

Finally, we can say a balanced participation of men and women in different grade is absent.

JAMUNA BANK LTD.

WRITTEN TEST FOR MANAGEMENT TRAINEE OFFICER (MTO)-2013

EXAMINATION HELD ON: 26-01-2013

TIME: 60 MINUTES TOTAL MARKS: 75

LANGUAGE & COMMUNICATION

Questions (Q1 to Q5): Fill in the Gaps

01. Located amidst the green hills of the country, what might have otherwise been _ tourist spot in _ part of the south assumed the overtones of the battlefield.

- a) an impressive / an alien
- b) a blood-shattered / an estranged
- c) a combatant / a war torn
- d) a peaceful / a hostile
- e) None of these

Answer: Question - এর কঠিন শব্দগুলোর অর্থঃ Amidst- কোন কিছু দ্বারা তত্ত্বাদিক থেকে বেস্টিত, Located- কোন নির্দিষ্ট স্থানে অবস্থিত থাকা, Otherwise- অনথার, Assume- ধারণা করা, Overtone- স্পষ্টভাবে ব্যক্ত নয়, কিন্তু কোনো কিছু বোধান্বে এমন, Battlefield- যুক্তিক্ষেত্র, Impressive - আকর্ষণীয়, Alien- ভিন্ন বা বাইরের, Combatant - যে ব্যক্তি যুদ্ধ করে, Hostile- বন্দোবস্তুর বা শক্তির জন্য উপযোগী নয় বা বিপক্ষে।

একটি ভালোভাবে পড়লে সেখানে otherwise been _ tourist spot in _ অর্থঃ শূণ্যস্থান দুটিতে দুটি বিপরীত ধর্ম শব্দ বসবে।
প্রশ্নাঙ্গুলী ১ম Gap এ একটি positive word এবং ২য় Gap এ তাৰ বিপরীত ধৰ্মী শব্দ বসবে। অপশন গুলোৱ দিকে তাকান তাহলে দুক্তি পাবলেন উভয় হবে (D).

Ans. D

02. In spite of the _____ view of the country dismantled by war and its development blocked by illiteracy, locals like to _____ their nationalism in each and every case.

- a) sickening/unveil
- b) diverse/exhibit
- c) chaotic/display
- d) pleasing/conceal
- e) None of these

Answer: Question - এর কঠিন শব্দগুলোর অর্থঃ Dismantle- ধ্বংশ কৰা / কোনো কিছু আলাদা বা পৃথক কৰা, Sickening- বিরক্তিকর এবং মর্মাহত কৰে এমন, Blocked- বাধায়াত, Unveil- উন্মোচন কৰা বা বাক্ত কৰা, Diverse- ভিন্ন, Conceal - শোপন কৰা/ লোকানো, Chaotic - স্বৰূপায়ুক্ত অবস্থা, Display- প্রদর্শন কৰা / দেখানো।

বক্তব্য অর্থঃ যুদ্ধের দ্বারা সেশ্চার স্বৰূপায়ুক্ত বা বিশ্বাসের দৃশ্য থাকা সত্ত্বেও যা বিখ্যাত হয়েছে এবং উন্মোচন নিরীক্ষণাত্মক দ্বারা এর উন্মোচন ব্যবস্থাপনা সত্ত্বেও, জনসম প্রতিটি ক্ষেত্ৰে তাদেৱ জাতীয়তা বেঁধে প্রসৰণ কৰতে পছন্দ কৰে। এবাব উভয় এর অপশন এ যোগ্য যাক। (B) ও (D) হবে না, কারণ যুদ্ধ স্বাস্থ্যের সেশ্চের দৃশ্য diverse হবে না। (A) এবং প্রথম শব্দটি ধ্বংশ এবং Gap এ খাল খেলেও বিটীয় শব্দটি পৰের Gap এ meaning full নহ : তাই উভয় হলো অপশন (C).

Ans. C

03. He is popular _____ all _____ his goodness.

- a) to, for
- b) with, for
- c) to, with
- d) to, by
- e) None of these

Answer: Popular এর সাথে with হবে। Popular with মানে অনুসৰিত :

Ans. B

04. Some commit suicide because they are unable to tolerate _____ changes in their lives though some are born with a _____ to commit suicide.

- a) unfavorable / sentiment
- b) adverse / resolution
- c) catastrophic / tendency
- d) miserable / forecast
- e) None of these

Answer: Question- এর কঠিন শব্দগুলোর অর্থঃ Unable - অক্ষম, Tolerate- সহ্য কৰা, Commit - অপরাধজাতীয় কোন কিছু কৰা, Unfavorable- অনুচ্ছেদ নহ এমন / অভিক্ষেপ, Sentiment- আবেগ / অনুভূতি, Adverse- অভিক্ষেপ / বিপরীত, Resolution- সূচ প্রতিজ্ঞা, Tendency- কোন কিছুৰ কোক বা প্রবণতা, Miserable সূচক, Forecast- অবিদ্যাদৰ্শী কৰা।

Answer option (A), (B), (C) & (D) এর ধ্বংশ শব্দগুলো বসাবে যাক, কিন্তু (A), (B) & (D) এর বিটীয় শব্দগুলো থাকোৱ পৰের Gap এ বসাবে তা থাকা হচ্ছে কিন্তু অবিদ্যাদৰ্শ হবে না। কিন্তু (C) এর বিটীয় শব্দ tendency পৰের Gap এ বসাবে থাকাটি অবিশূর্ণ হয় : উভয় হলো অপশন (C).

Ans. C

05. The invigilating team entered the country with _____ notions of the country as _____ country where many parents are alleged to have sold their children in exchange for food.

- a) paradoxical / an abounding
- b) incongruous / an opulent
- c) preconceived / an impoverished
- d) unwarranted / an impotent
- e) None of these

Answer: Question- এর কঠিন শব্দগুলোর অর্থঃ Invigilate - প্রতারণা প্রতিরোধকরে সতর্ক নজর রাখা বা সতর্ক, Paradox- আপাত দৃষ্টিতে স্বরিবার্থী মনে হলেও পর্যবেক্ষনের পরে তা সত্য বলে প্রমাণিত হওয়া / সত্যবর্জিত নয় এমন, Incongruous- দেখাঙ্কা /অসাধারিক, Opulent- ব্যয়বহুল ও বিলাসবহুল / প্রাচুর্য, Preconceived- কোন কিছু সম্পর্কে পূর্ব ধারনা, Impoverished- খুব দরিদ্র / গরিব।

বাকোর অর্থ: পর্যবেক্ষণকারী দলটি পূর্ব ধারনা নিয়ে দেশটিতে প্রবেশ করেছিল যে (দরিদ্র) অনেক পিতামাতার খাদ্যের বিনিময়ে তাদের হেলেমেডেনের বিক্রি করে দেবার অভিযোগ ছিল। অর্থাৎ দেশটি দরিদ্র (impoverish) বলেই পিতামাতা তাদের সন্তানদের খাদ্যের বিনিময়ে বিক্রি করেন। উত্তর অপশন (C).

Ans. C

Questions (06 to 10): One Word Substitution

Instruction: For each question, select the word that best matches the definition provided.

16. Someone who enjoys or is good at talking with people =

- a) Loudmouth
- b) Commentator
- c) Conversationalist
- d) Orator
- e) None of these

Answer: Question- এর কঠিন শব্দগুলোর অর্থঃ Loudmouth- যে লোক বিরক্তিকরভাবে বা বোকার মত বেলী কথা বলে, Commentator- ভাষ্যকার, Conversationalist - যে ব্যক্তি অন্য লোকের সাথে কথা বলে মজা পায় বা এ ব্যাপারে দক্ষ, Orator - সুবক্তু। Someone who enjoys or is good at talking with people is conversationalist.

Ans. C

17. Someone who attempts to be united with God through prayer =

- a) Pious
- b) Saint
- c) Honorary
- d) Mystic
- e) None of these

Answer: Question- এর কঠিন শব্দগুলোর অর্থঃ Pious- ধার্মিক, Saint- সন্তানী / সাধু বা ধর্ম যাজক, Honorary- সম্মানজনক বা সন্মাননা, Mystic - খোদার সাথে মিলন প্রত্যাশী এবং এই মিলনের মাধ্যমে মানুষের অতীন্দ্রিয় বা বোধাতীত সত্ত্বের সাক্ষাত্প্রয়াসী ব্যক্তি বা মরণী। Someone who attempts to be united with God through prayer is Mystic.

Ans. D

18. Very confident in behaviour, or intended to be noticed, especially by being brightly coloured =

- a) Flamboyant
- b) Charlatan
- c) Exhibitionist
- d) Novice
- e) None of these

Answer: Question- এর কঠিন শব্দগুলোর অর্থঃ Flamboyant- ঝৌলুস্পূর্ণ, বর্ণাত্মক = আচরণে খুব আত্মবিশাসী বা অন্যের নজর কাঢ়তে বর্ণাত্মক বা জনকালো হওয়া, Charlatan- হাতুড়ে, Exhibitionist- নিজেকে জাহির করতে ব্যাঘ ব্যক্তি, Novice- শিক্ষানবিশ।

Very confident in behaviour, or intended to be noticed, especially by being brightly coloured is Flamboyant.

Ans. A

19. The tailoring of globally produced products to make them suitable to local tastes and needs =

- a) Globalization
- b) Glocalization
- c) Glycolization
- d) Widening
- e) None of these

Answer: আন্তর্জাতিক উৎপাদিত পণ্যকে হানীয় ক্ষতি ও চাহিদার উপযোগি করার প্রক্রিয়াকে বলে Globalization.

The tailoring of globally produced products to make them suitable to local tastes and needs is Globalization

Ans. A

20. A mournful poem written on the death of someone loved =

- a) Homage
- b) Ode
- c) Saga
- d) এলেজি
- e) None of these

Answer: Question- এর কঠিন শব্দগুলোর অর্থঃ Homage- কারো জন্য গভীর হাঁ ও শংসা, Ode- কোনো নিদিষ্ট ব্যক্তি বা বিষয়ক কাহিনী পরম্পরা, যেমন:- কোন পরিবার, সামাজিক গোষ্ঠী ইত্যাদি সংবন্ধে পরম্পরার সম্পর্কিত অনেকগুলো পুস্তক, Elegy- প্রিয় কারো মৃত্যুর ওপর লিখিত কবিতাকে Elegy বলে।

A mournful poem written on the death of someone loved is Elegy.

Ans. D

Questions (11 to 15): Appropriate English Usage

11. "Check that the door is locked behind you." If you rewrote the sentence beginning with Make sure that you, what should the next words in the sentence be?

- a) are locking the door
- b) are checking that the door was locked
- c) have checked that the door was locked
- d) have locked the door
- e) did your locking of the door

Answer: বাক্যটির অর্থ: তোমার পিছেন যে দরজাটি তালাবদ্ধ আছে তা Check কর। যদি অর্থের পরিবর্তন না করে বাক্যটিকে make sure that you (অর্থাৎ নিশ্চিত হও মে তোমার) দিয়ে ভরা করা হয় তবে বাকের দাকি অংশ উভয় অপশনের কোনটি হওয়া উচিত? তাহলে উভয় তেলো গড়া যাকঃ

Lock কে কবল তা নয় বরং Locked অবহায় আছে কিনা তা দেখাই হল বাকের অর্থ। সুতরাং (A), (D) ও (E) বাদ। কোন কিছু ঘটতেছে এমন ক্ষেত্রে make sure করা খাপে না কিছু কোন কিছু যে করা হয়েছে বা হতে যাচ্ছে সে ক্ষেত্রে make sure করার প্রয়োজন হয়। এজন (B) উভয় নয়। কারণ দরজাটি যে Locked ছিল তা ফুসি Check করতেছে কথাটি make sure করা অর্থবোধক নয়, বরং এটি তালাবদ্ধ ছিল কিনা তা Check করার বাপৰার পাকে। এজন (C) উভয় হলো অপশন।

Ans. C

12. "If your payment is not received in thirty days, you will be charged a late fee". Which is the best way to write the underlined portion of this sentence? If the original is the best way, choose option (1).

- a) thirty days, you will be charged
- b) thirty days, you would be charged
- c) thirty days, you were charged
- d) thirty days, you have been charged
- e) you will charge.

Answer: বাক্যের অর্থ হলো: যদি তোমার কিছি বা পাওনা ৩০ দিনের মধ্যে পরিশোধ না হয় তাহলে তোমাকে বিলফ ফি দিতে হবে। উভয় বাকের underline করা অংশটিকু সবচেয়ে সঠিকভাবে লেখা আছে উভয় অপশন এর কোনটিতে?

বাক্যটিতে আসলে কোন খুল নেই। তাই উভয় হলে (A), বাকী অপশন B, C, D ও E তে charge এর ব্যবহার সঠিকভাবে হ্যানি। তাই এগুলো বাদ।

Ans. A

13. "Tomorrow the lines at the department store were longer than we have ever seen." Which correction should be made to this sentence?

- a) Change store to store's
- b) Change were to will be
- c) replace we with they
- d) change have ever seen to ever seen
- e) No correction necessary

Answer: Sequence of Tense অনুযায়ী Tomorrow বাক্যে Future Tense হবে। তাই were না হয়ে will be হবে। Ans. B

14. "Nahar and Jamil had to work late in order to make their deadline." If you rewrote this sentence beginning with Tomorrow evening, the next words should be -

- a) Nahar and Jamil will have to
- b) their deadline had to be made
- c) their deadline will have
- d) their work will have been
- e) Nahar and Jamil have had to

Answer: Tomorrow evening দিয়ে তরু করলে had to কে will have to দিয়ে পরিবর্তন করতে হবে।

Ans. A

15. "A list of books about repairing and selling cars are in the file on the table." Which correction should be made to this sentence?

- a) replace of with to
- b) insert them after repairing
- c) Insert a comma after selling
- d) change are to is
- e) insert a comma after file

Answer: Subject + verb agreement অনুযায়ী Singular Subject A list, will take singular verb 'is' instead of 'are'.

Ans. D

Questions (16 to 20): Identification of Missing Word

Instruction: In each of the following sentences, there is one word missing. Identify the missing word from the given choices.

16. I would drink tea than coffee.

- a) instead b) rather
 c) in spite d) of course e) No word is missing

Answer: Would এর পরে rather হবে। I would rather মানে কোন কিছু অধিকতর পছন্দ করা।

Ans. B

17. He may not create miracles, but he can provide consistent and solid performance.

- a) will b) should
 c) rather d) but e) No word is missing

Answer: Question- এর কঠিন শব্দগুলোর অর্থঃ Miracle-আশ্চর্যজনক ও অপ্রত্যাশিত কোন ঘটনা বা অলৌকিক ঘটনা।

বাক্যটির অর্থ: সে আশ্চর্য জনক কিছু সৃষ্টি নাও করতে পারে তবে সে সামর্জস্যপূর্ণ ও ভাল মানের দক্ষতা দেখাতে পারে।

Ans. E

18. Europe is the prettiest in summer.

- a) when b) during
 c) time d) around e) No word is missing

Answer: বাক্যটিতে কোন word missing নেই।

Ans. E

19. I was looking forward receiving a quick reply of my mail from you.

- a) to b) by
 c) into d) on e) No word is missing

Answer: Look forward to something যার মানে অধীর আয়াহে কোন কিছুর প্রতীক করা। এখানে Look forward to এর (verb + ing) হয়। তাই receiving এর পূর্বে to missing আছে।

বাক্যটির অর্থ হবে: তোমার কাছ থেকে আমার মেইলের একটা তাঙ্কনিক জবাব পাবার জন্য আমি অধীর আয়াহে প্রতীক্ষা করছিলাম।

Ans. A

20. I have to start by 7 a.m. tomorrow to on time for work.

- a) be b) for
 c) so d) if e) No word is missing

Answer: To ও on এর মাঝে be, missing আছে। To be on time মানে সময়সত থাকা বা উপস্থিতি হওয়া।

Ans. A

Questions (21 to 24): Finding the odd one from a list of words Instruction: Find the odd word from each list.

21. a) Controlling b) Totalitarian
 c) Authoritarian d) Strict e) Apartheid

Answer: Question- এর কঠিন শব্দগুলোর অর্থঃ Controlling- নিয়ন্ত্রণ সম্পর্কিত, Totalitarian - কর্তৃত্বপূর্ণ, Authoritarian- কর্তৃত্ববানী বা বাক্তি স্বাধীনতায় উপেক্ষা, Strict- কঠোর / কড়াকড়ি, Apartheid- বর্ণবিশেষ্য। অপশন (E) হাড়া অন্যগুলির word Controlling বা নিয়ন্ত্রণ সম্পর্কিত। অপশন (E) যেহেতু একটু Odd তাই এটিই উত্তর।

Ans. E

22. a) Dulcet b) Discordant
 c) Strident d) Raucous e) Guttural

Answer: Question- এর কঠিন শব্দগুলোর অর্থঃ Dulcet- মধুর শব্দ/ সুরেলা, Discordant -সুরেলা নয়, Strident-বিরক্তিকর উচ্চ শব্দ, Raucous-কর্তৃশ বা বেসুরো, Guttural-কষ থেকে উৎপন্ন তাৰ ধৰন বা শব্দ। অপশন (A) সুরেলা নয় মধুর শব্দ। বাকী অপশনগুলো Odd কারণ বাকী অপশনগুলো বেসুরো বা সুরেলা নয় এমন নির্দেশ করে।

Ans. A

23. a) Obscure b) Limpid
 c) Diaphanous d) Gossamer e) Crystalline

Answer: Question- এর কঠিন শব্দগুলোর অর্থঃ Obscure - স্পষ্ট নয় বা সুরোধা, Limpid- স্পষ্ট ও ঘৰজ, Diaphanous- যে বস্তু যেহেতু কাপড় এত যিহি ও পাতলা যে অপর পার্শ্ব দেখা যায়, Gossamer- খুব পাতলা ও হালকা, Crystalline- কঠিকের ন্যায় বজ্জ। অপশন (A) Obscure, Odd বাকী অপশনগুলো একই অর্থ প্রকাশক।

Ans. A

24. a) Trifling b) Significant
 c) Substantial d) Generous e) Ample

Answer: Question- এর কঠিন শব্দগুলোর অর্থঃ Trifling- নগণ্য বা তুচ্ছ, Significant- উল্লেখ্য, Substantial- বিশাল, Generous - সাজাবিকের চেয়ে বড় / বাদামি / মগালু, Ample - প্রচুর। অপশন (A) Trifling, Odd বাকী অপশনগুলো সমার্থক।

Ans. A

MATHEMATICS AND ANALYTICAL ABILITY

25. There are two examinations rooms A and B. If 10 Students are sent from A to B, then the number of students in each room is the same. If 20 candidates are sent from B to A, then the number of students in A is double the number of students in B. What is the number of students in room A ?

- a) 20 b) 80
 c) 100 d) 200 e) None of these

Answer: A এবং B দুটি পরীক্ষার কেন্দ্র আছে। যদি 10 জন Students, A রস্ম থেকে B রস্মে পাঠানো হয়, তাহলে উভয় রস্মের সমান Students হয়। যদি 20 জন Students, B রস্ম থেকে A রস্মে পাঠানো হয় তাহলে A রস্মে B রস্মের চেয়ে দিগন্বন্ত Students হয়। A রস্মের Students সংখ্যা কত?

দ্রষ্টব্যাতির সমাধান: এ জাতীয় অংক অপশন ধরে back calculation করলে সুস্থ সমাধান করা যায়। অপশন (D) থেকে উল্লেখ করলে যদি $A = 200$ জন হয় তবে B তে হবে $(200 - 10) = 190$ জন B তে হবে। অর্থাৎ B তে 180 জন ছিল। $B \rightarrow A \rightarrow 20$ জন। তাহলে $A = 200 + 20 = 220$ যা 180 এর দিগন্বন্ত নয়। তাই অপশন (D) বাদ। এবার অপশন (C), $A = 100$ জন সূতৰাং B তে হবে $= 100 - 10 = 90$ জন অর্থাৎ $A = B = 90$ হয়। B এর actual student = 80 আবার $B \rightarrow A \rightarrow 20$ জন sent করলে $A = 100 + 20 = 120$ যা $B (80 - 20) = 60$ এর দিগন্বন্ত। তাই উভয় অপশন (C)।

বিজ্ঞানিক সমাধান: ধরি, A রস্মের ছাত্র সংখ্যা x এবং B রস্মের ছাত্র সংখ্যা y

$$\text{১ম শর্তমতে, } x - 10 = y + 10$$

$$\Rightarrow x - y = 20 \dots \dots \dots \text{(i)}$$

$$\text{২য় শর্তমতে, } x + 20 = (y - 20) 2$$

$$\Rightarrow x - 2y = -60$$

$$\Rightarrow -2y = -60 - x$$

$$\Rightarrow y = \frac{60 + x}{2} \quad [x \text{ এর মান বসিয়ে]$$

$$\Rightarrow y = 80$$

$$\therefore x = 20 + 80 = 100 \text{ জন}$$

যেহেতু $x = A$ রস্মের ছাত্র সংখ্যা ধরা হয়েছে, সূতৰাং উভয় অপশন (C).

Ans. C

26. The area of a field is 680 square feet. If the cost of fencing is Tk. 50 per foot, then how much will it cost to fence the field?

- a) Tk. 8800 b) Tk. 6800
 c) Tk. 4800 d) Tk. 4400 e) None of these

Answer: Field আসলে কোন ধরনের তা ধরে নলা হয়নি। Field যদি আয়তক্রম হয় তাহলে এক বাহু হতে পারে 68 এবং অন্য বাহু হতে পারে 10 অথবা এক বাহু 34 এবং অন্য বাহু 20 বা $85 \frac{1}{4}$ । যদি দৈর্ঘ্য 68 এবং প্রশ্ন 10 হয় তাহলে পরিসীমা হবে $= 2(68 + 10) = 156$ । কিন্তু, যদি দৈর্ঘ্য 34 এবং প্রশ্ন 20 হয় তাহলে $2(34 + 20) = 108$ । যদি $85 \frac{1}{4}$ হয় তবে পরিসীমা $= 2(85 + 8) = 186$ এখানে পরিসীমা vary করায় cost ও vary করে। যেহেতু-

$$\text{cost} = 156 \times 50 = 7800$$

$$\text{or} = 108 \times 50 = 5400$$

$$\text{or} = 186 \times 50 = 9300$$

কেন উভয় অপশনে উপরোক্ত figure মেই। তাই উভয় অপশন (E).

Ans. E

27. Eight people are planning to share equally the cost of a rental car. If one person withdraws from the arrangement and the others share equally the entire cost of the car, then the share of each of the remaining persons will be increased by -

a) $1/7$

b) $1/8$

c) $7/8$

d) $1/2$

e) None of these

Answer: 8 জন লোক সম্পরিমান টাকা প্রদান করে একটি গাড়ি ভাড়া নেওয়ার পরিকল্পনা করল। যদি একজন লোক share তার তুলে নেয় তবে বাকীরা সমানভাবে ঐ খরচ বহন করে, তবে বাকীদের প্রত্যেকের share কী পরিমাণ বৃদ্ধি পায়?

মনেকরি, 8 জন লোকে প্রত্যেকে । টাকা করে মোট 8 টাকা ভাড়া দেবার পরিকল্পনা করল। যদি একজন চলে যায় তাহলে বাকী 7 জন লোকে 8 টাকা ভাড়া দেয়। সূতরায় প্রতি জনে ভাড়া দেন $8 \div 7$ টাকা।

$$\therefore \text{জন প্রতি share বৃদ্ধি পায় } \frac{8}{7} - 1 = \frac{8-7}{7} = \frac{1}{7}$$

Ans. A

28. A two-digit number is such that the product of the digits is 8. When 18 is added to the number, then the digits are reversed. What is the number?

a) 18

b) 24

c) 42

d) 81

e) None of these

Answer: স্বত্ত্বাত্ত্বির সমাধান: যেহেতু 2 অংক বিশিষ্ট সংখ্যাটির digit দুটির গুণফল 8, তাই digit দুটি অবশ্যই 2 এবং 4 হবে। অপশন (B) তে, $2 \times 4 = 8$ তাহলে, সংখ্যাটি = 24, এখন = $24 + 18 = 42$ যা 24 এর উপরে তাই উভয় অপশন (B). সংখ্যাটি 42, 18 ও 81 ধরলে প্রদেশের শর্তগুলো পূর্ণ হয় না, উপরের নিয়মে Cheek করুন।

Ans. B

29. The present ages of three persons are in the ratio of 4 : 7 : 9. Eight years ago, the sum of their ages was 56. What are their present ages in years?

a) 8, 20, 28

b) 16, 28, 36

c) 20, 35, 45

d) 12, 21, 27

e) None of these

Answer: মনে করি, বর্তমান তাদের বয়স যথাক্রমে $4x$, $7x$, এবং $9x$ বছর।

তাদের বয়সের যোগফল = $4x + 7x + 9x = 20x$ বছর;

৮ বছর পূর্বে ছিল $(20x - 8 \times 3) = 20x - 24$;

প্রদূষণতে, $4x - 8 + 7x - 8 + 9x - 8 = 54$

$$\Rightarrow 20x - 24 = 56$$

$$\Rightarrow 20x = \frac{80}{20} = 4 \text{ বছর}$$

∴ বর্তমানে তাদের বয়স হবে = $4 \times 4, 7 \times 4, 9 \times 4 = 16, 28, 36$

Ans. B

30. A circular logo is enlarged to fit the lid of a jar. The new diameter is 50 percent larger than the original. By what percentage has the area of the logo increased?

a) 50

b) 80

c) 100

d) 125

e) None of these

Answer: মনেকরি, দৃশ্যাকার logo বা diamete বা ব্যাস 20 feet

$$\therefore \text{Area হবে } \pi r^2 = \pi 10^2 = 100\pi \text{ [এখানে } r = \frac{d}{2} \text{ ব্যাসার্ধ } = 10 \text{ feet]}$$

আবাহ নতুন diamete হবে 20×20 এবং $50\% = 30$ feet

$$\therefore \text{Area প্রতক্রিয়া বৃদ্ধি পায়, } \frac{22 \times \pi - 100\pi}{100\pi} \times 100 = 125\%$$

Ans. D

1. A water tank can be filled by two pipes A and B in 60 minutes and 40 minutes respectively. How many minutes will it take to fill the tank from empty state if B is used for half the time, and A and B fill it together for the other half?

- a) 30 minutes
- b) 40 minutes
- c) 42 minutes
- d) 57 minutes
- e) None of these

Answer: A 60 মিনিটে পূর্ণ করে । টি tank

$$\therefore A \text{ । মিনিটে পূর্ণ করে } \frac{1}{60} \text{ টি tank}$$

অনুমতিতাবে, B 40 মিনিটে পূর্ণ করে । টি tank

$$\therefore B \text{ । মিনিটে পূর্ণ করে } \frac{1}{40} \text{ টি tank}$$

$$\therefore B 20 \text{ মিনিটে পূর্ণ করে } \frac{20}{40} = \frac{1}{2} \text{ অংশ tank [B এর অর্ধেক সময় } \frac{40}{2} \text{ নিয়ে]}$$

$$(A + B) \text{ একসময়ে } । \text{ মিনিটে পূর্ণ করে } \left(\frac{1}{60} + \frac{1}{40} \right) = \frac{2+3}{120} = \frac{5}{120} = \frac{1}{24} \text{ অংশ}$$

$$\frac{1}{24} \text{ অংশ পূর্ণ হয় } । \text{ মিনিটে}$$

$$\therefore \frac{1}{2} \text{ অংশ পূর্ণ হয় } 24 \times \frac{1}{2} = 12 \text{ মিনিটে}$$

সুতরাং মেটি সময় লাগে $(12 + 20) = 32$ মিনিট

Ans. E

32. A can do a piece of work in 4 hours; B and C together can do it in 3 hours, while A and C together can do it in 2 hours. How long will B alone take to do it?

- a) 8 hours
- b) 10 hours
- c) 12 hours
- d) 24 hours
- e) None of these

Answer: A 4 ঘণ্টার করে । অংশ কাজ

$$A \text{ । ঘণ্টার করে } \frac{1}{4} \text{ অংশ কাজ } :$$

একই ভাবে,

$$(B + C), । \text{ ঘণ্টার করে } \frac{1}{3} \text{ অংশ কাজ } ; (A + C), । \text{ ঘণ্টার করে } \frac{1}{2} \text{ অংশ কাজ } :$$

$$\therefore C \text{ একা } । \text{ ঘণ্টার কাজ করে } \left(\frac{1}{2} - \frac{1}{4} \right) = \frac{1}{4} \text{ অংশ কাজ }$$

$$\therefore B \text{ একা } । \text{ ঘণ্টার কাজ করে } \left(\frac{1}{3} - \frac{1}{4} \right) = \frac{1}{12} \text{ অংশ কাজ }$$

$$\therefore B \frac{1}{12} \text{ অংশ কাজ } । \text{ ঘণ্টার }$$

$$\therefore B \text{ । বা সম্পূর্ণ অংশ কাজ } 12 \text{ ঘণ্টার }$$

Ans. C

33. If a person walks at 14 km/hr instead of 10 km/hr, he can cover 20 km more. The actual distance travelled by him is -

- a) 50 km
- b) 56 km
- c) 70 km
- d) 80 km
- e) None of these

Answer: ঘণ্টার 10 কি.মি এর পরিবর্তে 14 কি.মি বেগে গেলে শুধি ঘণ্টার বেগে cover লেখ $(14 - 10) = 4$ কি.মি

$$\text{তাহলে } 20 \text{ কি.মি বেগে থেকে সময় লাগবে } \frac{20}{4} = 5 \text{ ঘণ্টা}$$

$$\text{আরম্ভ জানি, } D = S \times T$$

$$\text{সুতরাং, হানটির প্রকৃত দূরত্ব হবে } = 5 \times 14 = 70 \text{ km}$$

Ans. C

34. A group of students decided to collect as many paisa from each member of a group as is the number of members. If the total collection amounts to Tk 59.29, what is the number of members in the group?

a) 57

b) 67

c) 77

d) 87

e) None of these

Answer: মনেকরি, এই সমস্যাটি হিলে x জন :

$$\text{গুরুত্বে, } \text{এতি } x \text{ পয়সা করে } x \text{ দিলে } x \text{ মোট } x^2 \text{ পয়সা} = \frac{x^2}{100} \text{ টাকা}$$

$$\text{এখন, } \frac{x^2}{100} = 59.29$$

$$\Rightarrow x^2 = 5929$$

$$\Rightarrow x = \sqrt{5929} = 77 \text{ জন}$$

Ans. C

35. Seats for Mathematics, Physics and Biology in a university are in the ratio of 5 : 7 : 8. There is a proposal to increase these seats by 40%, 50% and 75% respectively. What will be the ratio of increased seats?

a) 2 : 3 : 4

b) 6 : 7 : 8

c) 6 : 8 : 9

d) Remain the same

e) None of these

$$\text{Answer: New Ratio} = (5 + 40\% \text{ of } 5) : (7 + 50\% \text{ of } 7) : (8 + 75\% \text{ of } 8)$$

$$= 7 : 10.5 : 14 = 14 : 21 : 28 = 2 : 3 : 4$$

Ans. A

36. On selling 17 balls for Tk 720, there is a loss equal to the cost price of 5 balls. The cost price of a ball is -

a) Tk. 45

b) Tk. 50

c) Tk. 55

d) Tk. 60

e) None of these

Answer: ধরি, একটি বলের ক্রয়মূল্য = x

$$17 \text{ টির ক্রয়মূল্য} = 17x$$

$$17 \text{ টি বলের ক্রয়মূল্য} = 720 \text{ টাকা} + 5 \text{ টি বলের ক্রয় মূল্য}$$

$$\text{অর্থাৎ } 17x = 720 + 5x$$

$$\Rightarrow 12x = 720$$

$$\therefore x = 60$$

স্বতন্ত্র সমাধান:

Back solve করে স্বতন্ত্র পাওয়া যায় : অপশন (D) তে প্রতিটির ক্রয় মূল্য 60 টাকা হলে 17 টির ক্রয়মূল্য = $17 \times 60 = 1020$

$$\therefore \text{কতি} = 1020 - 720 = 300 \text{ টাকা}$$

$$\therefore \frac{300}{60} = 5 \text{ টির ক্রয়মূল্য} : \text{তাই উত্তর অপশন (D).}$$

Ans. D

37. The captain of a cricket team of 11 members is 26 years old and the wicket keeper is 3 years older. If the ages of these two are excluded, the average age of the remaining players is one year less than the average age of the whole team. What is the average age of the whole team?

a) 23 years

b) 24 years

c) 25 years

d) 26 years

e) None of these

Answer: 11 সদস্য বিশিষ্ট cricket team এর captain এর বয়স 26 বছর এবং wicket keeper এর বয়স captain এর বয়স হতে 3 বছর বেশি : যদি এই দুই জন চলে যাব তাহলে বাকি 9 খেলোয়াড়দের গড় বয়স whole team এর গড় বয়স অপক্ষে । বছর কয়ে যাব : whole team এর গড় বয়স কত?

মনেকরি, whole team এর গড় বয়স x বছর

∴ whole team এর গড় বয়সের সমান হবে $11x$ বছর

$$\text{অন্তর্ভুক্ত, } 11x - (29 + 26) = (x - 1)9$$

$$\Rightarrow 11x - 55 = 9x - 9$$

$$\Rightarrow 2x = 46$$

$$\therefore x = 23$$

Ans. A

38. An industrial loom weaves 0.128 metres of cloth every second. Approximately, how many seconds will take for the loom to weave 25 metres of cloth?

- a) 178
- b) 195
- c) 204
- d) 488
- e) None of these

Answer: 0.128 মিটার weave করে 1 সেকেন্ডে

$$\therefore 25 \text{ মিটার weave করে } \frac{1 \times 25}{0.128} = 195.21 = 195 \text{ (আয়)}.$$

Ans. B

39. Kibria went to the stationers and bought things worth Tk 25, out of which 30 paisa was sales tax on taxable items. If the tax is 6%, then what was the cost of the tax free items?

- a) Tk. 15
- b) Tk. 15.70
- c) Tk. 19.70
- d) Tk. 20
- e) None of these

Answer: Rate of tax = 6%

6 পয়সা tax হলে taxable items এর cost 100 পয়সা

$$\therefore 30 \text{ পয়সা tax হলে taxable items এর cost } \frac{100 \times 30}{6} = 500 \text{ পয়সা বা } 5 \text{ টাকা}$$

$$\therefore \text{Tax ফি item এর মূল্য হবে } (25 - 5) = 20 \text{ টাকা}$$

Ans. D

40. A towel, when bleached, was found to have lost 20% of its length and 10% of its breadth. What is the percentage of decrease in area?

- a) 10%
- b) 10.08%
- c) 20%
- d) 28%
- e) None of these

Answer: বিভিন্ন সমাধান: একটি তোয়ালে আয়তাকার ধরে দৈর্ঘ্য ও প্রস্থের কোন মান ধরে area বের করতে হয়। যেমন, দৈর্ঘ্য 15 ও

প্রস্থ 10 হলে area = 150 এবং 20% কমলে নতুন দৈর্ঘ্য = $15 - 15 \times \frac{1}{5} = 12$ এবং 10% কমলে নতুন প্রস্থ = $10 - 1 = 9$ । নতুন

$$\text{area} = 12 \times 9 = 108 : \text{area শতকরা কমে} = \frac{150 - 108 \times 100}{150} = 28\%$$

$$\text{সূত গতির সমাধান: } P + Q - \frac{P \times Q}{100} = 20 + 10 - \frac{20 \times 10}{100} = 28\%$$

Note: 1. কোন ক্ষুর দৃষ্টি যেমন দৈর্ঘ্য/প্রস্থ কমলে (Decrease) হলে উপরের সূত্রানুযায়ী করতে হবে।

2. কোন ক্ষুর (আগতক্ষেত্র/বর্তক্ষেত্র/ সূত্রে ইত্যাদি) দৈর্ঘ্য/ প্রস্থ দৃষ্টিই বৃক্ষ পেলে, $P + Q + \frac{P \times Q}{100}$ এই সূত্র হবে।

3. একটি বাহুলে অন্তর্ভুক্ত কমলে $P - Q - \frac{P \times Q}{100}$ এই সূত্র দিয়ে করতে হবে।

Ans. D

41. A train 110 metres long is running with a speed of 60 km/hr. In what time will it pass a man who is running at 6 km/hr in the direction opposite to that in which the train is going?

- a) 5 sec
- b) 6 sec
- c) 7 sec
- d) 10 sec
- e) None of these

Answer: 1 ঘণ্টা বা 60×60 Second = ঘণ্টা 66×1000 মিটার $\quad [1 \text{ hour} = 60 \times 60 \text{ Sec}, 66 \text{ km} = 66 \times 1000 \text{ metre}]$

$$\therefore 1 \text{ Second } \& \text{ ঘণ্টা } \frac{66 \times 1000}{60 \times 60} = \frac{55}{3} \text{ মিটার}$$

$$\frac{55}{3} \text{ মিটার ঘণ্টা } 1 \text{ Second } \&$$

$$\therefore 110 \text{ মিটার ঘণ্টা } \frac{3 \times 110}{55} = 6 \text{ Second } \&$$

[Note: km/hr থেকে m/sec এ বেতে হলে $\frac{5}{18}$ দিয়ে করতে হবে এবং m/sec থেকে km/hr এ বেতে হলে $\frac{18}{5}$ দিয়ে করতে হবে।]

Ans. B

42. A number consists of 3 digits whose sum is 10. The middle digit is equal to the sum of the other two and the number will be increased by 99 if its digits are reversed. What is the number?

- a) 145 b) 253
c) 370 d) 352 e) None of these

Answer: প্রশ্ন গতির সমাধান: ১ম শর্তমতে, A, B, C ও D উভয় হতে পারে কারণ অপশন কলোর সবগুলোর যোগফল = 10. কিন্তু ২য় শর্তমতে A ও C সম : B ও D উভয় হতে পারে : B কে Reverse করলে 352 হয়

\therefore Difference = $(352 - 253) = 99$ যা ২য় শর্তের সাথে মিলে গেল। অর্থাৎ Reverse করায় 99কুকি পেল। তাই উভয় অপশন (B).

Ans. B

43. 50 men took a dip in a water tank 40m long and 20m broad on a religious day. If the average displacement of water by a man is 4m^3 , then the rise in the water level in the tank will be -

- a) 25cm b) 30cm
c) 35cm d) 50cm e) None of these

Answer: মদেকরি, পানির উচ্চতা কৃতি পায় \times মিটার

আয়ত্ব জানি, আয়তন = দৈর্ঘ্য \times লেখ \times উচ্চতা

যদ্যপি, অতিজন ছুব দেয়াতে পানীর আয়তন ৫ ঘন মিটার বেড়ে যায়, তাহলে 50 অন ছুব দেয়াতে পানীর আয়তন কৃতি পায় $4 \times 50 = 200$ ঘনমিটার।

শর্তমতে, $x \times 40 \times 20 = 200$

$$\Rightarrow x = \frac{200}{40 \times 20} = \frac{1}{4} \text{ মিটার}$$

আয়ত্ব জানি,

$$1 \text{ মিটার} = 100 \text{ সে.মি}$$

$$\therefore \frac{1}{4} \text{ মিটার} = 100 \times \frac{1}{4} = 25 \text{ সে.মি.}$$

Ans. A

Questions (44 to 48):

The Chairman of a board of directors in a company has appointed 9 of the directors, Mr. Jakl, Mr. Karim, Mr. Uton, Mr. Monir, Mr. Nannu, Mr. Ovi, Mr. Pappu, Mr. Qader and Mr. Roni on 3 lines of businesses - Housing, Food and Telecommunication. The criteria for the construction of these business lines are given below.

Mr. Qader can work only in Telecom Sector	Mr. Liton and Mr. Monir must work in the same line
Mr. Jakl and Mr. Karim cannot work in the same line	Mr. Nannu and Mr. Roni cannot work in the same line
Mr. Ovi must work in the same line as Mr. Karim or Mr. Qader or both of them	
Each line consists of exactly three directors	No director can be in more than one line

আসুন শ্রেণীটি আয়ত্ব দেখি Analytical puzzle টিতে কী বলা হয়েছে?

Puzzle টিতে বলা হয়েছে একটি company র board of directors এর chairman তিন ধরনের ব্যবসায় 9 জন directors, J, K, L, M, N, O, P, Q এবং R কে নিয়োগ দিয়েছেন। (এখানে নামের প্রথম অক্ষর ব্যবহার করা হলো)।

তিন ধরনের ব্যবসা কলো Housing, food এবং Telecommunication. এই ব্যবসাগুলো construction এর শর্ত হলো নিম্নলিখিত:

(i) Q কাজ করে তথ্যাতে Telecom line এ
(ii) L ও M একই line এ কাজ করবে।

LM

(iii) J ও K একই line এ কাজ করবেন না।

JK

(iv) N ও R একই line এ কাজ করবেন না।

NR

(v) K বা Q অব্যাক্ত উভয় যে line এ কাজ করবে O অবশ্যই সে line এ কাজ করবে

K/Q → O or K + Q → O

(vi) অতিথি Business line তথ্যাতে তিনজন directors নিয়ে গঠিত হবে

(vii) একজন director একাধিক line এ থাকতে পারবে না।

4. If Mr. Roni is in Telecom and Mr. Karim is in Food business, then which of the following must be true?

- a) Mr. Ovi is in Telecom Business
- b) Mr. Liton is in Housing Business
- c) Mr. Pappu is in Food Business
- d) Mr. Ovi is in Housing Business
- e) None of these

Answer: R যাঁর telecom এবং K যাঁর Food Business এ কাজ করে তারে নীচের কোনটি অবশ্যই সত্য হবে?

Telecom	Food	Housing
R, Q অসমে (i) নয় শর্তিত	K → O অসমে (v) নয় শর্তিত	(ii) নয় শর্তিত, I, M অবশ্যই 3 line এ কাজ করবে।

(A) ও (D) বাদ কারণ Diagram থেকে O, Food Business করবে।

(B) সঠিক উত্তর : (C) বাদ, P may be কিছি must be হবে না।

Ans. B

45. Which of the following can be a combination for the Housing business?

- a) Mr. Jaki, Mr. Karim, Mr. Nannu
- b) Mr. Jaki, Mr. Monir, Mr. Pappu
- c) Mr. Liton, Mr. Nannu, Mr. Qader
- d) Mr. Karim, Mr. Ovi, Mr. Roni
- e) None of these

Answer: (A) বাদ কারণ (iii) নয় শর্তিতে J ও K একই line এ কাজ করতে পারে না।

(B) বাদ কারণ (ii) নয় শর্তিতে L ও M একই line এ কাজ করার কথা। অবশ্যে M এর সাথে L নেই।

(C) বাদ কারণ (i) নয় শর্তিমূল্যাংক Q অবশ্যই Telecom line এ কাজ করবে।

(D) এর combination, housing business করতে পারে।

Ans. D

46. If Mr. Ovi is in Food business and Mr. Liton works in the same line as Mr. Qader then which Director from the following must be in Housing business?

- | | | |
|------------------|---------------|----------------|
| I. Mr. Jaki | II. Mr. Pappu | III. Mr. Roni |
| a) i | | b) iii |
| c) i & ii | | d) i, ii & iii |
| e) None of these | | |

Answer:

Food business	Housing business	Telecom business
ROK	JNP	MLQ
NOK	JRP	MLQ

যেহেতু O, Food business এ, তাই (v) নয় শর্তিতে K ও L Food business এ থাকবে। আবার (ii) নয় শর্তিতে L ও M একই line এ থাকবে বিধায় MLQ telecom business এ কাজ করবে। (iii) নয় শর্তিতে J ও K একই line এ কাজ করবে না। তাই Housing line এ অবশ্যই J কাজ করবে। (iv) নয় শর্তিতে N ও R একই line এ থাকবে না বিধায় Housing business এ N/R কাজ করবে। Housing business এ director হবে J P N / R অর্থাৎ JNP বা JRP অর্থাৎ J ও P must হবে।

Ans. C

47. Any Director from the following could work in the same line as Mr. Liton EXCEPT

- a) MR. Jaki
- b) Mr. Karim
- c) Mr. Ovi
- d) Mr. Pappu
- e) None of these

Answer: (i) নয় শর্তিতে L ও M একই line এ থাকবে আবার (vi) নয় শর্তিতে একটি line এ সর্বাধিক 3 জন director থাকবে। তাই A, B ও D থেকে যে কেউ L এর সাথে থাকতে পারে কিন্তু (C) থাকতে পারবে না। কারণ (v) নয় শর্তিতে K/Q এর সাথে O কাজ করবে। তাই O কে আপনা যাবে না। আবার (vi) নয় শর্ত তাই হবে না।

Ans. C

48. If Mr. Karim and Mr. Pappu is in Housing business then which of the following must be in Food business?

- a) MR. Jaki
- b) Mr. Monir
- c) Mr. Ovi
- d) Mr. Nannu
- e) None of these

Answer:

Telecom	Housing	Food
QRU	K → O.P	MLN

যান্ত্রে বলা আছে K & P Housing line এ। তাই (v) নয় শর্তিতে O অবশ্যই Housing এ থাকবে। আবার (i) নয় শর্তিতে Q telecom line এ থাকবে। অর্থাৎ telecom line এ আছে 2 জন director কিন্তু করে। Food line এ তিনজন director সরকার। (ii) নয় শর্তিতে, LM একই line এ থাকবে বিধায় একা অবশ্যই Food line এ কাজ করবে।

Ans. B

- 49. Which of the following countries is the most densely populated country in the world?**
a) Bangladesh b) China
c) Luxemburg d) Monaco e) None of these Ans. D
- 50. Which of the following minerals can be found at Barapukuria of Dinajpur district?**
a) Oil b) Natural gas
c) Lime stone d) Coal e) None of these Ans. D
- 51. Which of the following states was recently granted observer status by United Nations General Assembly resolution?**
a) Vatican City b) Palestine
c) Israel d) South Sudan e) None of these Ans. B
- 52. Which African country was the first to recognize Bangladesh as an independent nation?**
a) Senegal b) South Africa
c) Egypt d) Nigeria e) None of these Ans. A
- 53. Which of the following private banks of Bangladesh introduced mobile banking first?**
a) Dutch Bangla Bank Limited b) BRAG Bank Limited
c) Eastern Bank Limited d) Jamuna Bank Limited e) None of these Ans. A
- 54. Which one of the following is the first community radio of Bangladesh?**
a) Radio foorti b) ABC Radio
c) Radio Padma d) Radio Amar e) None of these Ans. C
- 55. The famous Bangladeshi player Mr. Siddiqur Rahman plays which of the following games?**
a) Cricket b) Football
c) Shooting d) Golf e) None of these Ans. D
- 56. Currently, how many districts are there in the Rajshahi division?**
a) 8 b) 16
c) 17 d) 10 e) None of these Ans. A
- 57. Who won the Nobel Prize in Literature in 2012?**
a) Tomas Transtromer b) Mario Vargas Llosa
c) Herta Muller d) Mo Yan e) None of these Ans. D
- 58. Mr. Ban Ki-moon, the Secretary General of the UN, is a citizen of which of the following countries?**
a) Ghana b) North Korea
c) South Korea d) Egypt e) None of these Ans. C
- 59. Who captained the Bangladesh Test Cricket Team in their Inaugural test cricket match?**
a) Habibul Bashar b) Naimur Rahman Durjoy
c) Akram Khan d) Khaled Masud e) None of these Ans. B
- 60. In which of the following countries did the "Orange Revolution" take place?**
a) Ukraine b) France
c) England d) Thailand e) None of these Ans. A

PART II:**Descriptive Questions****Question 1: Problem Solving (Show your calculation/steps)**

- I) In a business, Piku invested Tk 6,500 for 6 months; Qazi invested Tk 8,400 for 5 months and Raj invested Tk 10,000 for 3 months. Piku wants to be the working member, for which he will receive 5% of the profit. If the total profit earned is Tk 7,400. What is the share of Qazi in the profit?

Answer: Piku invested TK. 6,500 for 6 months = TK. 39000 for 1 month.

Qazi invested TK. 8400 for 5 months = TK. 42000 for 1 month.

Raj invested TK. 10,000 for 3 months = TK. 30000 for 1 month.

So, their Investment = Piku : Qazi : Raj = 39000 : 42000 : 30000 = 39 : 42 : 30 = 13 : 14 : 10

As a working member Piku receive = 5% of 7400 = TK. 370

The rest amount = (7400 - 370) = TK. 703

So, share of in the profit share of Qazi = $\frac{7030 \times 14}{13+14+10}$ = TK. 2660. Ans.

- II) In a certain store, the profit was 320% of the cost. If the cost increases by 25% but the selling price remains constant, approximately what percentage of the selling price is the profit now?

Answer: Let, the cost of TK. 100

So, the profit is TK. 320

Selling price = (100 + 320) = TK. 420 [Since, profit = Selling price - Cost price]

After increasing 25% of the cost

Cost price will be = (100 + 25) = TK. 125

Since the selling price Remains constant

So, Profit will be = (420 - 125) = TK. 295

The required Percentage = $\frac{\text{profit}}{\text{selling price}} \times 1000 = \frac{295}{4200} \times 1000 = 70.23 \approx 70\%$ Ans.

Question 2: Sentence Making

Instruction: Using each set of two words, make one sentence.

Example: [gold, metal]

Gold is a precious metal.

No.	Set of Words	Make sentences Here
1	Accuse, Malpractice	Researchers has accused DG for supporting medical malpractice in different sectors.
2	Governance, Ethical	We design our corporate governance policies to foster ethical conduct.
3	Attainment, Optimize	Attainment of goal can be optimized by proper approach.
4	Feedback, Reinforcement	Feedback and reinforcement are most important concepts in communication process.
5	Diversification, Conglomerate	Conglomerate diversification takes place when a entrepreneur stretches out his business into an area which is dissimilar to his core business.

Question 3: Critical Writing

"Some argue that trade barriers are essential to protect infant industries of a country. Others argue that trade barriers result in inefficiencies and their removal can ensure proper competition and lowest possible prices for consumers."

With which of the above opinions do you agree? Support your views with reasons and/or examples from your own experience, observations or reading.

Answer:

Trade barriers are government regulations that put restrictions on types of international trade. Some argue that trade barriers are essential to protect infant industries of a country. Others argue that trade barriers result in inefficiencies and their removal can ensure proper competition and lowest possible prices for consumers. This is a very controversial issue. Because there are people on both sides of the argument who have very strong feelings about their arguments. I support the removal of trade barriers that free trade.

The reasons to support the latter views are given below:

- ❖ Free trade enables countries to specialize in the production of those commodities in which they have a comparative advantage.
- ❖ International trade increases the size of a firm's market, resulting in lower average costs and increased productivity, ultimately leading to increased production.
- ❖ Free trade improves the efficiency of resource allocation. The more efficient use of resources leads to higher productivity and increasing total domestic output of goods and services.
- ❖ Increased competition promotes innovative production methods, the use of new technology, marketing and distribution methods.
- ❖ Consumers benefit in the domestic economy as they can now obtain a greater variety of goods and services.
- ❖ The increased competition ensures goods and services, as well as inputs, is supplied at the lowest prices. For example in Australia imported motor vehicles would cost 35% more if the 1998 tariff levels still applied. Clothing and footwear would also cost around 24% more.
- ❖ The countries involved in free trade experience rising living standards, increased real incomes and higher rates of economic growth. This is created by more competitive industries, increased productivity, and efficiency and production levels.

To sum up above mentioned from these discussions, it is clear that trade barriers result in inefficiencies and their removal can ensure proper competition and lowest possible prices for consumers.

Coming Soon.....

Job's

Bank English -যা আপনাকে ব্যাক অব পেতে সাহায্য করবে।

UNION BANK LIMITED

RECRUITMENT TEST OF SENIOR OFFICER—2014

EXAMINATION HELD ON: 2014

TIME: 120 MINUTES: MARKS: 200

PART ONE:

Multiple Choice Questions (MCQ)

(One mark for each correct answer and 0.25 to be deducted for each wrong answer)

English

Questions (01 to 05): For each question, select the word(s)/phrase(s) that appropriately fill(s) in the gap(s).

01. The hypocrite _____ feeling which s/he does not _____ but which s/he feels s/he should display.

- a) shows - apprehend
- b) depicts - possess
- c) decries - hold
- d) simulates-admire
- e) None of these

বাক্যটির প্রথম অংশ পড়লে বুঝা যায় যে, Hypocrite বা মূলাফিকরা হলো বিমুখী। তাই তারা যা করে বা দেখায় (depicts) তারা আসলে তা ধারণ বা বিশ্বাস (possess) করে না।

বাক্যটির অর্থ: মূলাফিকরা যে মনোভাব প্রদর্শন করে তা তারা ধারণ করে না/মানে না, তবে তারা মনে করে এটা তাদের দেখানো উচিত।

ans. B

02. Small investors who are _____ of the sponsors and directors' intents, consequently _____ their hard-earned money in the stock market.

- a) aware ... recoup
- b) ignorant... loss
- c) oblivious ... lose
- d) unmindful...retrieve
- e) None of these

Answer: Question-এর কঠিন শব্দগুলোর অর্থ: Intent-অভিপ্রায়, Retrieve-ক্ষতিপূরণ করা/পুনরুজ্জীবন করা।

বাক্যটিতে বলা হচ্ছে কৃত্রি বিনিয়োগকারীরা sponsor এবং director দের intent= অভিপ্রায় বা গোপন ইচ্ছা সম্পর্কে সচেতন না, অর্থাৎ বিশ্বৃতি পরায়ন (oblivious)। তাই তারা stock market-এ তাদের hard-earned (কষ্টার্জিত) অর্থ খোয়ায়/হারায় অর্থাৎ loss করে।

বাক্যটির অর্থ: কৃত্রি বিনিয়োগকারীরা প্রায়ই তাদের জমিনদার/ এবং পরিচালকদের মনোভাব সম্পর্কে বিশ্বৃতি পরায়ন ধাকে; ফলে শেয়ার মজারে তারা তাদের কষ্টার্জিত অর্থ হ্যাত।

ans. C

03. Early sailing ships, _____ in uncharted seas, at times faced many _____ in reaching their destination.

- a) were navigated...problems
- b) navigating...hazards
- c) has navigated...adversities
- d) being navigated...perils
- e) None of these

Answer: Question-এর কঠিন শব্দগুলোর অর্থ: Navigate - নৌযায়া করা, Adversities - দুঃখ কষ্ট, Hazards - দূর্ঘটনা/বিপদ, Perils - বিপন্ন।

Early sailing ships এর পরে দুটো কমা (,) আছে। তাই ships কে modify করে এমন modifier হিসেবে navigating হবে।
ব্যক্তিকে এভাবেও চিন্তা করতে পারেন: Navigating in uncharted seas, early sailing ships at times faced many hazards in reaching their destination.

বাকের অর্থ: মাপহীন সময়ে চলাচলের সময় আনন্দ জাহাজটি দ্বারা গবেষণা পৌঁছাব আগে বিপদ (hazards) এর সম্ভাবন হয়।

ANS. B

04. The merger will eliminate _____ and provide more _____ cross training to staff.

 - a) paperwork ... or less
 - b) loss ... aggressive
 - c) duplication ... effective
 - d) competitors...directed
 - e) None of these

Answer: Question-এর কঠিন শব্দগুলোর অর্থঃ Aggressive-আক্রমণাত্মক, Duplication-প্রতিলিপিকরণ, Effective -কার্যকরী, Competitor -প্রতিযোগী, Directed -পরিচালিত।

Merger হলে দু বা ততোধিক প্রতিষ্ঠান এক হয়। এর ফলে competitor করে যায়। আর বিভিন্ন ধরনের প্রতিষ্ঠানের কর্মীদা এক হলে merger এ অবশ্যই directed cross training এর সঙ্গে হবে।

05. Given the existence of so many _____ in the field, it was unrealistic of Moin to expect any _____ of opinion.

 - a) sections ... integration
 - b) conflicts ... assessment
 - c) divergences ... formation
 - d) factions...uniformity
 - e) None of these

Answer: Question-এর কঠিন শব্দগুলোর অর্থঃ Sections -বিভাগ, Integration - একীভূত, Conflicts - হ্রস্ব, Assessment - ম্লান্যন, Divergences - অনেক দিকে ছাড়িয়া যাওয়া, Factions - নদাপলি, Uniformity - এককমত হওয়া।

প্রথম অংশ পড়লে দুর্বা যায় যে field বা জায়গাটিতে so many factions আছে। আব এ কারণেই এটা Moin এর জন্য unrealistic যে যে uniformity of opinion পাবে।

স্বাক্ষর কর্তৃ এই পিনার এ পেশ দলালপি/ভাগ আছে যে ঐক্যমতে শৌচানো মহিলার নিকট অবস্থা মনে হচ্ছে।

Questions 96 to 100: For each of these sentences, identify which underlined section is incorrect.

06. He was much more wiser after that unfortunate incident.
A) A B) C) D) E) No Error

degrees of comparison द्वारा दिया गया। आई wiser ना हमें wise दिया।

ANSWER

07. He is quite capable of doing the work by himself.

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

20

08. Cotton fiber, alike other vegetable fibers, is composed mostly of cellulose.

Answer: Cotton fiber এবং অন্যান্য vegetable fiber শব্দ করা হচ্ছে বলে alike এর পরিবর্ত্ত like হচ্ছে।

09. At the eyes of the law, robbery is a greater offence than theft.
A B C D E) No Error

Answer: At এর পরিবর্তে In হলে : আর In the eyes of the law যানে আইনের চোখে বা আইনের দফতরে।

10. Whenever people live together in one place, they formed a community.

Answer: ପ୍ରଥମ ଅଂଶେ live ହଲୋ Present Tense ଏବଂ, ତାଇ ଏବଂ ଶାଖେ parallel ରେଖେ ୨ୟ ଅଂଶେର verb ଅବଶୀଳ 'form' ହେଉଥିବା 'formed' ନାହିଁ ।

Questions (11 to 15): In each of the following sentences, there is one word missing. Identify the missing word from the given choices.

11. He felt no qualms borrowing money from his friends.

- a) to
- b) for
- c) of
- d) about
- e) No word is missing

Answer: Qualms এর পরে about হবে। qualms about মানে যর্ষণীভা, কেমন কেমন লাগা, বিধা।

ans. D

12. The ultimate test of a good education is supposed to be that it teaches to think.

- a) you
- b) all
- c) if
- d) by
- e) No word is missing

Answer:শিক্ষা সবার জন্য-education for all. তাই বাক্যের শেষ অংশে teaches এর পরে all শব্দটি missing আছে। ans. B

13. Rajshahi has one of lowest motor fatality rates in the country.

- a) is
- b) the
- c) of
- d) between
- e) No word is missing

Answer: lowest যদেহতু superlative, তাই lowest এর আগে the হবে।

ans. B

14. Considering how long she yearned to see Italy, her first reaction was curiously tepid.

- a) almost
- b) should
- c) rather
- d) had
- e) No word is missing

Answer: এই বাক্যে কোন শব্দই missing নেই।

বাক্যের অর্থ: সে Italy দেখার জন্য কত দীর্ঘ সময় অপেক্ষা করেছে - এটা বিবেচনা করলে তার প্রথম প্রতিক্রিয়া ছিল curiously (অঙ্গুতভাবে) tepid (ভুব কম অস্থির্পূর্ণ)।

ans. E

15. Which method of organizing content points did you feel more comfortable?

- a) among
- b) with
- c) have
- d) between
- e) No word is missing

Answer: এই বাক্যে কোন শব্দই missing নেই।

ans. E

Questions (16 to 18): Read the following passage.

Based on what is stated or implied in the passage, answer the questions that follow.

He saw nothing, he had no knife or sharp instrument, the grating of the window was of iron and he had

- too often assured himself of its solidity. His furniture consisted of a bed, a chair, a table, a pail, and a jug. The bed had iron clamps, but they were screwed to the wall and it would have required a screwdriver to take them off. Dantes had but one resource which was to break the jug and with one of the sharp fragments attack the wall. He left the jug fall on the floor and it broke in pieces. He concealed two or three of the sharpest fragments in his bed, leaving the rest on the floor. The breaking of the jug was too natural an accident to excite suspicion, and next morning gaoler went grumbly to fetch another, without giving himself the trouble to remove the fragments. Dantes heard joyfully the key grate in the lock as guard departed.

Answer: কঠিন শক্তিলোর অর্থঃ Assured -নিশ্চিত, Solidity -স্থানতা/কঠিনতা, Screwdriver -ফ্রেজাইভার, Fragments -টুকরো, Suspicion -সন্দেহ। Gaoler- কারাবাসী, Grumblingly- বিড়বিড় করে বলা।

16. Dantes was in

- | | |
|--------------------|------------------|
| a) a hostel | b) a dining room |
| c) an army barrack | d) a prison |
| e) None of these | |

Answer: Comprehension টির শেষ থেকে ২য় Sentence টি(...and next morning gaoler went grumbilngly to fetch another,...) পড়লে বোধ যায় যে Dantes কারাগারে ছিল।

ans. D

17. Dantes heard the key grate in the lock when the

- | | |
|---------------------------|--------------------------|
| a) cell door was shut. | b) cell door was opened. |
| c) store room was opened. | d) store room was shut. |
| e) None of these | |

Answer: Dante কখন key grate lock এর শব্দ শনল?

ans. E

18. The guard left the fragments because he

- | | |
|----------------------------|------------------------------------|
| a) did not notice them. | b) wished to punish Dantes. |
| c) was too lazy to bother. | d) wanted Dantes to Clear them up. |
| e) None of these | |

Answer: শেষের আগের বাক্যের without giving himself the trouble to remove the fragments থেকে বোধ যায় যে, তাই guard এতই lazy ছিল যে এটাকে তাঙ্ক সেমনি, bother করেনি।

ans. C

19. Six years ago, Rahim was P times as old as Kalam was. If Rahim is now 17 years old, how old is Kalam now in terms of P?

- | | |
|---------------|-------------|
| a) $11/P + 6$ | b) $P/11+6$ |
| c) $17 - P/6$ | d) $17/P$ |

Answer: যদেকবি,

ছয় বছর আগে কালামের বয়স x বছর

ছয় বছর আগে রহিমের বয়স px বছর

প্রদানুসারে,

$$px + 6 = 17$$

$$\therefore x = \frac{11}{P}$$

$$\therefore \text{বর্তমানে কালামের বয়স } \left(\frac{11}{P} + 6 \right) \text{ বছর}$$

ans. A

20. What percentage of numbers from 1 to 80 has 0 or 5 in the unit's digit?

- | | |
|------------------|--------|
| a) 10% | b) 14% |
| c) 20% | d) 21% |
| e) None of these | |

Answer: 1 থেকে 80 পর্যন্ত 5 unit digit এমন সংখ্যা (5, 15, 25, 35, 45, 55, 65, 75) অর্থাৎ মোট 8 টি এবং 0 unit digit এমন সংখ্যা (10, 20, 30, 40, 50, 60, 70, 80) অর্থাৎ মোট 8 টি

$$\therefore \text{মোট সংখ্যা} = 8 + 8 = 16 \text{ টি}$$

$$\therefore \text{Percentage} = \frac{16 \times 100}{80} = 20\%$$

ans. C

21. The length, width, and depth of a rectangular box are 6 feet, 5 feet, and 7 feet, respectively. A pipe supplies water at a rate of 6 cubic feet per minute. How much time, in minutes, would it take for the pipe to fill a conical box whose volume is three times the volume of the rectangular box?

- a) 105 b) 125
 c) 205 d) 235
 e) None of these

Answer: Volume of rectangular box = $(6 \times 5 \times 7) \text{ ft}^3 = 210 \text{ ft}^3$

$$\therefore \text{Volume of conical box} = 210 \times 3 = 630 \text{ ft}^3$$

$$\therefore \text{Time required} = \frac{630}{6} = 105 \text{ min}$$

ans. A

22. A rectangular field is 3.2 yards long. A fence marking the boundary is 11.2 yards in length. What is the area of the field in square yards?

- a) 4.68 b) 7.68
 c) 9.28 d) 11.28
 e) None of these

Answer: প্রশ্নে দেওয়া আছে,

আয়তাকার মাঠের দৈর্ঘ্য = 3.2 yard এবং

আয়তাকার মাঠের পরিসীমা = 11.2 yards

মনেকরি,

আয়তাকার মাঠের প্রস্থ = x yard

শর্তব্যতে,

$$2(x + 3.2) = 11.2$$

$$\Rightarrow 2x + 6.4 = 11.2$$

$$\therefore x = 2.4$$

$$\text{Area of the field} = (2.4 \times 3.2) \text{ sq yard} = 7.68 \text{ sq yard}$$

ans. B

23. The side length of a square inscribed in a circle is 2. What is the area of the circle?

- a) π b) $\sqrt{2}\pi$
 c) 2π d) $2\sqrt{2}\pi$
 e) π^2

Answer:

পীথাগোরাসের উপপাদ্য অনুসারে, পাশের চিহ্ন হতে,

$$AB^2 + AD^2 = BD^2$$

$$\Rightarrow 2^2 + 2^2 = BD^2$$

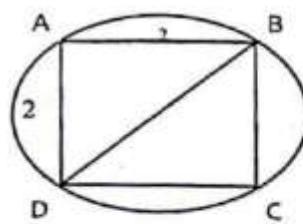
$$\Rightarrow BD^2 = 8$$

$$\therefore BD = 2\sqrt{2}$$

$$\text{Area of circle} = \pi r^2$$

$$= \pi \left(\frac{2\sqrt{2}}{2}\right)^2$$

$$= 2\pi$$

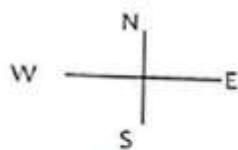


ans. C

24. Point A is 10 miles West of Point B. Point B is 30 miles North of Point C. Point C is 20 miles East of Point D. What is the distance (in miles) between Point A and Point D?

- a) $10\sqrt{10}$ b) $10\sqrt{20}$
 c) $20\sqrt{10}$ d) $30\sqrt{10}$
 e) $30\sqrt{2}$

Answer: দিক মনে যাবার Shortcut হলো NESW অর্থাৎ



এখন মধ্যবিচ্ছু থেকে প্রশ্নের শর্তগুলোকে বসাই; দেখা যাবে একটি সমকোণী ত্রিভুজ পাওয়া যায়।

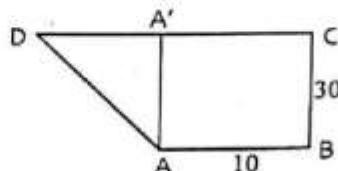
যেহেতু, $AB = 10$ তাই $CA' = 10$

এবং $BC = 30$ বলে $AA' = 30$

তাহলে $\triangle ADA'$ হতে পীথাগোরাসের সূত্র মতে,

$$AD^2 = A'D^2 + A'A^2 = 10^2 + 30^2 = 1000$$

$$\Rightarrow AD = \sqrt{1000} = 10\sqrt{10}.$$



ans. A

25. If w is 10 percent less than x , and y is 30 percent less than z , then wy is what percent less than xz ?

- a) 10%
- b) 20%
- c) 37%
- d) 40%
- e) 100%

Answer: Let, $x = 100$ and $z = 100$

$$\therefore w = (100 - 10) = 90 \text{ and } y = (100 - 30) = 70$$

$$\therefore wy = 90 \times 70 = 6300 \text{ and } zx = 100 \times 100 = 10000$$

$$zx \text{ is more than } wy = (10000 - 6300) = 3700$$

$$\therefore \text{Percentage} = \frac{3700}{10000} \times 100 = 37\% \quad \text{ans. C}$$

26. Akash bought two varieties of rice, costing Tk. 50/kg and Tk. 60/kg each, and mixed them in some ratio. Then he sold the mixture at Tk. 70/kg, making a profit of 20%. What was the ratio of the mixture?

- a) 1 : 10
- b) 1 : 5
- c) 2 : 7
- d) 3 : 8
- e) 5 : 7

Answer: Tk. 50 এবং Tk. 60 কেজি সরে দু'ধরনের চাল mix করে Tk. 70 সরে বিক্রি করলে 20% লাভ হয়। কি অনুপাতে চাল mix করা হয়েছিল।

20% লাভে,

$$\text{বিক্রয় মূল্য} (100 + 20) = 120 \text{ Tk. এলে ক্ষয়মূল্য} 100 \text{ Tk.}$$

$$\therefore \text{বিক্রয় মূল্য} 70 \text{ Tk. হলে ক্ষয়মূল্য} \frac{100 \times 70}{120} \text{ Tk.} = \frac{175}{3} \text{ Tk.}$$

অনুপাত,

Tk. 50 এবং Tk. 60 মুল্যের চালের মিশনের অনুপাত $x : y$

শর্টকাটে,

$$50x + 60y = \frac{175}{3}(x + y)$$

$$\Rightarrow 25x = 5y$$

$$\Rightarrow \frac{x}{y} = \frac{5}{25} = \frac{1}{5}$$

$$\therefore x : y = 1 : 5 \quad \text{ans. B}$$

27. A company generated revenue of Tk. 125,000 in 2012 which was 12.5% of its gross revenue. In 2013, the gross revenue increased by Tk. 250,000. What is the percentage increase in the revenue in 2013?

- a) 12.5%
- b) 25%
- c) 37.5%
- d) 50%
- e) 66.3%

Answer: যেহেতু 2012 সালে কোম্পানির Tk. 125,000 revenue আছ করে যা gross revenue এর 12.5%
সেহেতু revenue এর $12.5\% = \text{gross revenue of Tk. } 125,000$

$$\therefore \text{revenue এর } 100\% = \text{gross revenue of Tk. } \frac{125000 \times 100}{12.5} = 100000 \text{ Tk.}$$

\therefore 2012 সালের gross revenue = 100,000 Tk.
যেহেতু,

2013 সালের gross revenue increased by Tk. 250000

\therefore 2013 সালের gross revenue = $1000000 + 250000 = 1250000 \text{ Tk.}$
এখন,

2012 এর ক্ষেত্রে 100000 Tk. gross revenue হলো revenue 250000 Tk.

$$\therefore 2013 \text{ সালের } 1250000 \text{ Tk. gross revenue হলো revenue } \frac{125000 \times 1250000}{1000000} = 156250 \text{ Tk.}$$

\therefore 2012 থেকে 2013 তে revenue increase = $(156250 - 125000) \text{ Tk. } = 31250 \text{ Tk.}$

$$\therefore 2012 \text{ থেকে } 2013 \text{ তে revenue এর \% increase } = \frac{31250}{125000} \times 100 = 25\%$$

ans. C

28. In a class, 120 students are male and 100 students are female. 25% of the male students and 20% of the female students are engineering students. 20% of the male engineering students and 25% of the female engineering students passed the final exam. What percentage of engineering students passed the exam?

- a) 5% b) 10%
c) 16% d) 22%
e) 25%

Answer: 120 জন male এর মধ্যে ইঞ্জিনিয়ারিং students = $120 \times 25\% = 30$

100 জন female এর মধ্যে ইঞ্জিনিয়ারিং students = $100 \times 20\% = 20$

আবার,

30 জন male ইঞ্জিনিয়ারিং students এর মধ্যে pass করে = $30 \times 20\% = 6$

20 জন female ইঞ্জিনিয়ারিং students এর মধ্যে pass করে = $20 \times 25\% = 5$

\therefore 50 জন মোট ইঞ্জিনিয়ারিং students এর মধ্যে pass করে = 11 জন

$$\therefore 100 \text{ জন মোট ইঞ্জিনিয়ারিং students এর মধ্যে pass করে } = \frac{11}{50} \times 100 = 22\%$$

ans. D

29. P starts jogging from point X to point Y. 30 minutes later his friend R who jogs 1 km/hour slower than twice P's rate starts from the same point and follows the same path. If R overtakes P in 2 hours, how many kilometers will R have covered?

- a) 2.2 km b) 3.33 km
c) 4 km d) 6 km
e) 6.67 km

Answer: ধরি,

	Speed (km/hour)	Time travel (hour)	Distance Covered (km), D = ST
P	s	2.5	2.5 s
R	$2s - 1$	2	$2(2s - 1)$

শর্তমতে, $2.5 s = 2(2s - 1)$

$$\Rightarrow s = \frac{4}{3}$$

$$R \text{ have covered } = 2(2s - 1) = 2 \left[(2 \times \frac{4}{3}) - 1 \right] = \frac{10}{3} \text{ km } = 3.33 \text{ km}$$

ans. B

30. A total of Tk. 1200 is deposited in two savings accounts for one year, one portion at 5% simple interest, and the rest at 7% simple interest. If Tk. 72 was earned in interest, how much was deposited at 5%?

- a) 410
- b) 520
- c) 600
- d) 650
- e) 760

Answer: মনেকরি,

5% rate এ deposit করা হয় x টাকার উপর

$\therefore 7\%$ rate এ deposit করা হয় $(1200 - x)$ টাকার উপর
আমরা জানি, $I = prt$ এই সূত্রানুসারে,

$$(x \times .05 \times 1) + [(1200 - x) \times .07 \times 1] = 72$$

$$\Rightarrow .05x + 84 - .07x = 72$$

$$\therefore x = 600$$

ans. C

31. The combined salary of X, Y and Z is Tk. 90,000. X earns twice of what Z earns, and Y earns 1.5 times of what Z earns. What is the lowest salary of the three?

- a) 20,000
- b) 22,000
- c) 25,000
- d) 30,000
- e) 40,000

Answer: মনেকরি, $z \text{ earn} = a$

$$\therefore y \text{ earn} = 1.5 a$$

$$\therefore x \text{ earn} = 2a$$

প্রশ্নানুসারে,

$$a + 1.5a + 2a = 90000$$

$$\Rightarrow 4.5a = 90000$$

$$\therefore a = 20000$$

ans. A

32. A worker was hired for 7 days. Each day, he was paid Tk. 10 more than what he was paid for the previous day of work. The total amount he was paid in the first 4 days of work equaled the total amount he was paid in the last 3 days. What was his starting pay?

- a) Tk. 90
- b) Tk. 138
- c) Tk. 153
- d) Tk. 160
- e) Tk. 163

Answer:

মনেকরি,

১ম দিনের আয় x টাকা

প্রশ্নানুসারে,

$$x + (x + 10) + (x + 20) + (x + 30) = (x + 40) + (x + 50) + (x + 60)$$

$$\Rightarrow 4x + 60 = 3x + 150$$

$$\therefore x = 90$$

ans. A

33. M is a girl and has the same number of brothers as sisters. N is a boy and has twice as many sisters as brothers. M and N are the children of Q. How many children does Q have?

- a) 2
- b) 3
- c) 5
- d) 7
- e) 8

Answer:

ans. D

34. Forty tiles of dimensions 1 foot \times 2 foot each are required to completely cover a floor. How many tiles of dimensions 2 foot \times 4 foot each would be required to completely cover the same floor?

- a) 10
- b) 20
- c) 80
- d) 160
- e) 320

Answer: Area of 1 tiles = (1×2) sqft = 2 sqft

\therefore Area of 40 tiles = (40×2) sqft = 80 sqft

\therefore New tiles area = (2×4) sqft = 8 sqft

\therefore Tiles required to completely cover the floor = $\frac{80}{8} = 10$ Tiles

ans. A

35. A survey of n people in the town A found that 50% of them prefer Brand X. Another survey of 100 people in the town B found that 60% prefer Brand X. In total, 55% of all the people surveyed together prefer Brand X. What is the total number of people surveyed?

- a) 50
- b) 100
- c) 150
- d) 200
- e) 250

Answer: যদি total number of people in survey = x হয়,

তবে A = $100 - x$

শর্তমাত্রে,

$$(100 - x) \times 50\% + (100 \times 60\%) = x \times 55\%$$

$$\Rightarrow 5000 - 50x + 6000 = 55x \quad [\text{যথেহতু তন আকারে আছে তাই উভয় পক্ষ থেকে \% বাদ দিয়ে}]$$

$$\Rightarrow 11000 = 105x \quad \therefore x = 200$$

ans. D

36. The remainder when the positive integer m is divided by 7 is x. The remainder is $(x + 7)$ when m is divided by 14. Which one of the following could be the value of m?

- a) 45
- b) 53
- c) 72
- d) 85
- e) 100

Answer: Back solve করি, মাঝামাঝি কোন অপশন থেকে ভর্ত করলে ভাল হয়: অপশন b) তে আছে 53,

$$\begin{array}{r} 7 \\ | \\ 53 \end{array} \quad \begin{array}{r} 14 \\ | \\ 53 \end{array} \quad \begin{array}{r} 14 \\ | \\ 42 \\ | \\ 11 \end{array}$$

7 দ্বারা ভাগ করলে remainder 4 & 14 দ্বারা ভাগ করলে remainder $(4 + 7) = 11$ \therefore এটিই উত্তর।

ans. B

37. Which of the following model of Islamic financing can be used for large fixed assets financing such as houses, transport, machinery, etc.?

- a) Murabaha
- b) Salam
- c) Diminishing musharakah
- d) All of A, B, C
- e) None of these

ans. D

38. Which one of the following charters formed the basis of the first Islamic state?

- a) Charter of Mocca
- b) Hudalbiyah Treaty
- c) Charter of Jeddah
- d) Charter of Medina
- e) None of these

ans. D

39. An authority, appointed by an Islamic financial institution, which supervises and ensures both the Shari'ah compliance of new product development and the operations is called -

- a) Shari'ah Regulatory Agency
- b) Shari'ah Supervisory Board
- c) Shari'ah Compliance Board
- d) Shari'ah Regulatory Authority
- e) None of these

ans. B

- 40.** Which one of the following surah is called "Ummul Quran"?
- a) Surah Ikhlas
 - b) Surah Baqarah
 - c) Surah Yasin
 - d) Surah Fatiha
 - e) None of these
- ans. D
- 41.** In Bangladesh, which of the following organizations is responsible for conducting research on Islamic Economics?
- a) BIDS
 - b) Islamic Economics Research Bureau
 - c) Bangladesh Islamic Centre
 - d) Darul Arabia
 - e) None of these
- ans. B
- 42.** Where is the headquarters of the Islamic Development Bank located?
- a) Madina
 - b) Jeddah
 - c) Istanbul
 - d) Islamabad
 - e) None of these
- ans. B
- 43.** Recently, _____ general election has been held in India.
- a) 12th
 - b) 15th
 - c) 16th
 - d) 18th
 - e) None of these
- ans. C
- 44.** Beneath which sea has China recently unveiled its plans to build the world's longest underwater tunnel?
- a) South China Sea
 - b) East China Sea
 - c) Bohai Sea
 - d) Yellow Sea
 - e) None of these
- ans. C
- 45.** Which one of the following countries does not share any border with China?
- a) Thailand
 - b) Mongolia
 - c) Vietnam
 - d) Kazakhstan
 - e) None of these
- ans. A
- 46.** Bush house is located in –
- a) Washington
 - b) Montreal
 - c) New Delhi
 - d) London
 - e) None of these
- ans. D
- 47.** Which one of the following is the first sea shore gas field in Bangladesh?
- a) Bakhrabad
 - b) Sangu
 - c) Semutang
 - d) Srirkall
 - e) None of these
- ans. D
- 48.** Which of the following movies was directed by Jahir Raihan?
- a) Behula
 - b) Kokhono Asheni
 - c) Stop Genocide
 - d) All of A,B,C
 - e) None of these
- ans. C
- 49.** The first census of Bangladesh was held in –
- a) 1972
 - b) 1973
 - c) 1974
 - d) 1975
 - e) None of these
- ans. C

- 50. Which one of the following countries is not a democratic country and has no actual political parties?**
- a) Uganda
 - b) Qatar
 - c) Tunisia
 - d) Rwanda
 - e) None of these
- ans. B
- 51. Which one of the following football clubs clinched the title of the UEFA Europa League 2014?**
- a) Sevilla FC
 - b) Benfica
 - c) Valencia
 - d) Bayern Munich
 - e) None of them
- ans. D
- 52. Who won the Nobel Prize in literature in 2013?**
- a) Alice Munro
 - b) Mario Vargas Llosa
 - c) Mo Yan
 - d) Gabriel García Marquez
 - e) None of them
- ans. A
- 53. Who was the first Bangladeshi woman to climb the Mount Everest?**
- a) Shirin Ebadi
 - b) Nishat Mozumdar
 - c) Suzana Khan
 - d) Nishi Haque
 - e) None of them
- ans. B
- 54. The famous actress Suchitra Sen is originally from which district?**
- a) Birbhum
 - b) Jessore
 - c) Pabna
 - d) Kolkata
 - e) None
- ans. C
- 55. In MS Word, which one of the following options is used to create different formatting for different sections?**
- a) Section break
 - b) Section formatting
 - c) Page break
 - d) Page section
 - e) None of these
- ans. A
- 56. Which among the following international organization is not based in Geneva?**
- a) ILO
 - b) ITU
 - c) World Bank
 - d) WTO
 - e) None of these
- ans. C
- 57. Which Bangladeshi scientist discovered the complete genetic sequence of jute?**
- a) Dr. Maqsudul Alam
 - b) Dr. Abul Hussam
 - c) Dr. M Innes Ali
 - d) Saleemul Huq
 - e) None of these
- ans. A
- 58. What is the name of robotic submarine deployed to solve the mystery of the missing Malaysian airliner MH370?**
- a) Bluefin 21
 - b) Seabird
 - c) Detector-IA
 - d) Drive Down
 - e) None of these
- ans. A
- 59. 'Earth hour' is a movement uniting people to protect the planet, organized by -**
- a) World Bank
 - b) UNESCO
 - c) Green Peace
 - d) Worldwide Fund for Nature
 - e) None of these
- ans. D

60. Who is the current Secretary General of the South Asian Association for Regional Cooperation (SAARC)?
- a) Yadav Kanta Silwal
 b) Arjun Bahadur Thapa
 c) Shiva Prasad Koirala
 d) Ahmed Saleem
 e) None of these

ans. B

Part-II : Descriptive Questions

Question 1: Problem Solving (Show your calculations/steps)

- i) If 5 is added to the sum of the digits of a number consisting of two digits, the sum will be three times of the digit of the tens place. Moreover, if the places of the digits are interchanged, the number thus found will be 9 less than the original number. Find the number.

Answer: অনুবাদ: দুই অক্টক বিশিষ্ট একটি সংখ্যার অক্টক উলোর যোগফলের সাথে যদি 5 যোগ করা হয় তবে যোগফল দশকের অক্টকের তিনগুণ হয়। যদি অক্টগুলোর স্থান পরিবর্তন করা হয় তবে যে সংখ্যা পাওয়া যাবে তা মূল সংখ্যা হতে 9 কম। সংখ্যাটি কোনটা?

Let, Unit digit = y and

Digit of tens place = x

$$\therefore \text{Number is } = 10x + y$$

According to question,

$$5 + x + y = 3x$$

$$\therefore 2x = 5 + y \dots\dots (i)$$

Again,

$$10y + x + 7 = 10x + y$$

$$\Rightarrow 9y - 9x = -9$$

$$\therefore y = x - 1$$

Now put value of y in (i),

$$2x = 5 + x - 1$$

$$\therefore x = 4$$

Now, put value of x in (i),

$$2 \times 4 = 5 + y$$

$$\therefore y = 3$$

$$\therefore \text{Number is } = 10 \times 4 + 3 = 43 \quad (\text{Answer})$$

- ii) A female worker of a factory serves on the basis of monthly salary. At the end of every year she gets a fixed increment. Her monthly salary becomes Tk. 4500 after 4 years of service and Tk. 5000 after 8 years of service. Find the salary at the beginning of her service and the amount of annual increment of salary.

Answer: অনুবাদ: একজন চাকুরীজীবীর একটি বছর একবার করে increment হয়। যদি এই চাকুরীজীবীর বেতন 4 বছর পরে 4500 Tk. এবং 8 বছর পরে 5000 Tk. হয়, তবে তার একটি বছরের increment এবং তার initial salary কৰ্তৃপক্ষ ভঙ্গত বেতন কত ছিল?

After 8 years salary is 5000 tk.

After 4 years salary is 45000 tk.

4 years salary difference = 500 tk.

$$\therefore 1 \text{ years salary difference} = \frac{500}{4} = 125 \text{ tk.}$$

At beginning, salary was $[4500 - (125 \times 4)] = 4000$ tk.

Increment is 125 tk. salary at beginning is 4000 tk. (Answer)

Question 2: Fill in the blanks

Instruction: Fill the blanks in the following paragraph with appropriate words given in the table. No word can be used more than once. There are two extra words.

tactical	investor	implicitly	instinct	responsible	personally	accumulated
----------	----------	------------	----------	-------------	------------	-------------

This 1 to control, however, can increasingly become a liability, rather than an asset. As you become more senior, the quantity of work that you are 2 for clearly increases and there is a limit to how much you can 3 accomplish. The problem is that, if you are focusing on the 4 issues where you have expertise, you are 5 avoiding the broader strategic issues that will allow you to develop yourself, your direct reports and the organization.

Answer: কঠিন শব্দগুলোর অর্থঃ Tactical -কৌশলগত, Investor -বিনিয়োগকারী, Implicitly -পরোক্ষভাবে, Instinct -প্রৃতি, Responsible -দায়ী, Personally -ব্যক্তিগতভাবে, Accumulated -জমানো, Strategic -কৌশলগত।

Answer: 1. instinct 2. responsible 3. personally 4. tactical 5. implicitly

Question 3: Essay writing

Write an essay on "Prospects of Shariah-based banking in Bangladesh."

Answer:

Bangladesh is the world's third largest Muslim majority country, with Muslims making up more than 85 percent of the population; A significant portion of the population demanding interest-free banking for quite a long time. In August 1974, Bangladesh signed the Charter of Islamic Development Bank and committed itself to reorganize its economic and financial system as per Islamic Shariah. As a consequence of this, the first interest-free Shariah-based bank in South and Southeast Asia, Islami Bank Bangladesh Limited was established in Bangladesh in 1983. Since then, six more full-fledged private Islamic banks, 10 conventional banks with parallel Islamic banking services and a number of conventional banks with Islamic banking windows have been established.

According to the Bangladesh Bank (BB), the central bank of the country, the total deposits of the Islamic banks and Islamic banking branches of the conventional banks stood at Tk 286.5 billion (\$ 4.09 billion) at the end of June 2007. This was 23.6 per cent of the deposits of all private commercial banks and 14.3 per cent of the deposits of the total banking system. Total investment of the Islamic banks and the Islamic banking branches stood at Tk 265.4 billion (\$ 3.79 billion) at the end of June 2007. This was 26.9 per cent of all private banks and 17.2 per cent of the total banking system of the country. The remarkable shifting or conversion of the conventional banks and their branches into the Islamic lines signals high acceptance of the interest-free banking by the public in general. The Islamic banking industry continued to show strong growth since its inception in 1983 in line with the growth of the economy, as reflected by the increased market share of the Islamic banking industry in terms of assets, financing and deposits of the total banking system (Rashid et al. 2004).

However, Islamic banking in Bangladesh is facing numerous problems or challenges. First, they have not yet been successful in devising an interest-free mechanism to place their funds on a short-term basis. Studies conducted on Islamic banking in Bangladesh show that the future of Islamic banks hinges on their

ability to find a viable alternative to interest for financing all types of loans. Ahmad and Hassan (2007) concluded that Islamic banks in Bangladesh should recognize the fact that their success in abolishing interest has been only partial and they have a long way to go in their search for a satisfactory alternative to interest. They face the same problem in financing consumer loans and government deficits. Second, the risk involved in profit-sharing seems to be so high that almost all of the Islamic banks in Bangladesh have resorted to those techniques of financing which bring them a fixed assured return. As a result, there is a lot of genuine criticism that these banks have not abolished Interest but, in fact, only changed the nomenclature of their transactions.

In terms of individual consumers, the evidence to date suggests that the presence of Islamic finance involves a substantial degree of market segmentation. While religious conviction is a logical key determinant of the use of Islamic finance services, it is often not the only concern, with most consumers also identifying bank reputation, service quality and pricing as being of relevance in determining their patronage of a particular financial institution. In contrast to the widespread and extensive analysis of attitudes, perceptions and knowledge of conventional financial institution products and services, the parallel analysis of the same concerns in Islamic finance is still in its infancy. This is an important deficiency in the literature given the global growth in Islamic financing techniques and the evolution of dual banking systems in many parts of the Middle East and South-East Asia encompassing both Islamic and conventional financial services. Further works on the attitudes and beliefs towards Islamic banking are thus necessary in finding the prospects and growth of this rapidly growing sector.

Since there are no profit-and-loss-bearing securities in Bangladesh, Islamic banks have been allowed to maintain their Statutory Liquidity Requirement (SLR) with Bangladesh bank at the rate of 10% (recently made 11%) of their total deposit liabilities, whereas the requirement is 18% (recently made 19%) for conventional banks in Bangladesh. However, the Islamic banks do not have the legal support of the Central bank in Bangladesh, neither have they had the necessary expertise and trained manpower to appraise, monitor, evaluate and audit the projects that are required to finance. As a result, they can not expand despite having huge excess financial liquidity (Lakshmi 2004).

As Islamic banking practices are expanding into conventional banks, Islamic lenders must pay greater attention to educating others about the sector. Meanwhile, banks also suffer from a chronic shortage of staff with knowledge and expertise of Islamic finance, as method of auditing and appraising in Islamic banks differs considerably from that of conventional banking system. Hence, this issue may be redeemed by emphasizing more on training on Islamic banking system.

With the rapid rise of Shariah-based systems, this study seeks to find out the view of the bankers regarding the acceptability, opportunities and challenges of Islamic banking in Bangladesh as Islamic banking is rapidly growing area of banking and holds great potential in the banking sector of Bangladesh. This study will benefit the Islamic banks, as well as other conventional banks adopting Islamic banking windows to capture their growth opportunities. This study will also help the policy makers and regulators to support, assist and formulate policies regarding Islamic banking in Bangladesh.

শরীয়াহ বেকাত যাচাই এর উপর ধ্বনি থেকে নেওয়া এই অল্পসূচু গত্তে সিলে কেটা সিলে উহিয়া সিলুন।

Mutual Trust Bank MTO Exam 2018

English

(1-4) Read the passage and answer the question

Birds have evolved many physical attributes that contribute to their flying ability. Wings are important for adjustable, large hearts and light bones play critical roles. To fly, birds, like airplanes, move air across their wings. Wings are enlarged so that the air above the wing is forced to move faster than air below the wing. This creates higher pressure under the wings, called lift, which pushes the bird up. Different wing types evolved for different ways of flying. Prolonged flight requires long wings and an ability to soar. Other birds need superior maneuverability. Finches and ... have short, broad wings. Faster birds like hawks, have built-in spoilers that reduce turbulence while flying. This shows a steeper angle of attack without stalling. Tails have evolved for specialized use. The tails act like a rudder helping birds steer. Birds brake by speeding out their tails as they land. This adaptation allows them to make sudden controlled steps on branches or on prey. Flight takes muscle strength. Birds have specialized hearts that beat much faster than the human heart and provide necessary oxygen to the muscles. The breast muscle accounts for 15 percent of the bird's body weight. On pigeons, it accounts for a third of their total body weight. Birds carry no excessive baggage. They have hollow feathers and hollow bones with struts inside to maintain strength. Birds fly to find prey, escape predators and attract mates in other words to survive.

01. What is the main idea of the passage?

- wings are the most important attribute of birds
- Different wing Types evolved for different ways of flight
- Birds have many specialized features that aid in their survival
- Birds fly for many reasons

02. As per the passage, what causes birds to rise when they start flying?

- Long wings with hollow feathers
- Higher air pressure below than above the wings
- spreading out their tails
- Superior muscle strength

03. The word “prolonged” in the passage could be replaced by

- high altitude
- specialized
- predatory
- sustained

04. As per the passage, what benefits come from having built in spoilers?

- an ability to fly faster
- A steeper angle of diving for prey
- Prolonged flight

- Superior measurability

(5-8) Find out which underlined parts (a, b, c and d) of the following sentences has an error.

05. Heat rays are (a)harmless, (b)but nuclear radiation can have a (c)highly damaging effect (d)into living cells.

Answer: (d)

06. If one plans (a)to hike in the Sundarbans, (b)you should prepare (c)for the (d)probability of encountering a tiger.

Answer: (b)

07. (a)A heat exchanger is a device (b)in which (c)heat taken from a hot liquid or gas in order to warm a (d)cold one.

Answer: (c)

08. If tulip bulbs are planted (a)in the fall, they (b)could have been expected (c)to bloom the (d)following spring.

Answer: (c)

(9-12) Complete the sentence with appropriate word(s) or phrase(s):

09. Recent linguistic research has shed light on the role played by _____, regardless of their gender.

- how people speak
- how people were spoken
- how do people speak
- people are speaking

10. Autoimmune disease is a general term for several disorders _____ the body produces antibodies.

- in which
- which
- in that
- how

11. In most species of seal, the females are not _____.

- as large as the males
- as larger than the males
- larger the male
- the males as large

12. Kites come in all shapes and sizes, some ___ a person.

- large enough carrying
- enough large to carry
- **large enough to carry**
- large to carry enough

Q(13-15). Select the pair that expresses a relationship similar to that expressed in the original.

13. ANTIBIOTIC : INFECTION

- hormone : modification
- enzyme : digestion
- narcotic : dependency
- **coagulant: bleeding**

14. EULOGY : PRAISE

- comedy : Laughter
- **elegy: lament**
- tirade : awe
- epic : contempt

15. CANDLE : WAX

- metal: corrosion
- leather : vinyl
- curtain : pleat
- **tire : rubber**

Math

(16-30): Choose the correct answer.

16. A case contains c cartons. Each carton contains b boxes, and each box contains 100 paper clips. How many paper clips are contained in 2 cases?

- $100bc$
- $100b/c$
- **$200bc$**
- $200/bc$

Exp:

$$\text{Paperclips in a case} = 100 \times b \times c$$

$$\text{So, paper clips in 2 cases} = 2 \times 100 \times b \times c = 200bc$$

17. When Mr X imported a certain item, he paid a 7percent import tax on the portion of the item in excess of tk. 1000. If the amount of the import tax that Mr. X was tk. 87.50, what was the cost of the item?

- tk. 1600
- tk. 2250
- tk. 2450
- tk. 2730

Solution:

Let the value of the item be x ,

$$\text{then } 0.07(x-1000) = 87.50$$

$$\text{Or, } x-1000 = 1250$$

$$\text{Or, } x=2250.$$

18. A rectangular garden is to be twice as long as it is wide. If 360 yards of fencing including the gate will surrounding enclose the garden, what will be the length of the garden, in yards?

- 120
- 140
- 160
- 180

Solution:

Let,

the width and length of the garden are x and $2x$, respectively.

Thus,

$$2(x+2x)=360$$

$$\text{Or, } 6x=360$$

$$\text{Or, } 2x=120$$

$$19. 0.1 + (0.1)^2 + (0.1)^3 = ?$$

- 0.0011
- 0.111
- 0.1211
- 0.2341

Solution:

$$1/10 + 1/100 + 1 /1000$$

$$= (100+10+1)/100$$

$$=111/1000$$

=0.111

20. What is the total interest on Tk. 800 at 12.5% per annum for 9 months?

- Tk. 75
- Tk. 110
- Tk. 88
- Tk. 22

Solution:

$$I = Pnr$$

$$= 800 \times (9/12) \times (12.5)/100$$

$$= 75$$

21. The price of a product is 120% of its cost. The product was sold at 10% discount on the price. If the profit is Tk. 2400, what is the cost of the product?

- Tk 34000
- Tk 27500
- Tk 23000
- None of these

22. A worker makes 4 products in $5/3$ hours. How many products can he make in 125 minutes?

- 3
- 5
- 7
- None of these

Solution:

$$\frac{5}{3} \text{ hrs} = (5 \times 60)/3 \text{ min} = 100 \text{ min}$$

Now,

In 100 min 4 products

In 1 min $\frac{4}{100}$ products

In 125 min $(4 \times 125)/100 = 5$ products

23. The price of lunch for 15 people was Tk 207.00 including 15% service charges. What was the average price of lunch per person excluding the service charge?

- Tk 11.73
- Tk 12.00
- Tk 13.80
- Tk 15.87

Solution:

Including 15% service charge,

If price is 115, real price is 100 tk

If price is 1, real price is $100/115$ tk

If price is 207, real price is $(100 \times 207)/115 = 180$ tk

So, total price excluding service charge = 180 tk

So, average price = $180/15 = 12$ tk

24. For what value of x between -4 and 4, inclusive, is the value of $x^2 - 10x + 16$ the greatest?

- 4
- -2
- 0
- -4

Solution:

When $x = -4$, $x^2 - 10x + 16 = (-4)^2 - (-4) \times 10 + 16 = 72$

When $x = 4$, $x^2 - 10x + 16 = (4)^2 - (4) \times 10 + 16 = -8$

25. $8^{2x+1} = 2^{3x+6}$ then $x = ?$

- 2
- -2
- 1
- -1

Solution:

$$8^{2x+1} = 2^{3x+6}$$

$$\text{Or, } 2^{3(2x+1)} = 2^{3x+6}$$

$$\text{Or, } 3(2x+1) = 3x+6$$

$$\text{Or, } 6x+3 = 3x+6$$

$$\text{Or, } x = 1$$

26. An item was sold at 6% profit. If the cost was 4% less and the selling price was Tk 4 more, the trader would have made a profit of 12.5%. What was the cost of the item?

- Tk 180
- Tk 200
- Tk 250
- Tk 275

Solution:

At 6% profit, selling price = 106

At 4% less, = 96 tk, and earn 12.5% profit

so, selling price = $96 + 96 \times 12.5\% = 108$

So at 4% less excess profit is = $108 - 106 = 2$

When earning 2 tk more the cost of the item is 100 tk

When earning 1 tk more the cost of the item is $100/2$ tk

When earning 4 tk more the cost of the item is $(100 \times 4)/2 = 200$ tk

27. What is 10% of $y/3$ if $2y/3$ is 10% of 400?

- 2
- 4
- 6
- None of these

Solution:

$$2y/3 = 10\% \text{ of } 400$$

$$\text{Or, } 2y/3 = 40$$

$$\text{Or, } y = 60$$

Now,

$$10\% \text{ of } y/3 = (10/100) \times 60/3 = 2$$

28. If an organization increases its staff salary by 25%, by what percent must it now decrease to return to the original amount?

- 15%
- 18%
- 20%
- 25%

Solution:

Let increase (in %) in salary be denoted by A and decrease in salary denoted by B.

Change in salary given by:

$$A + B + AB/100$$

$$25 - B + (-25B)/100 = 0$$

$$\text{Or, } B + 0.25B = 25$$

$$\text{Or, } B = 25/1.25 = 20\%$$

Negative sign indicates DECREASE in salary.

29. The ratio of boys to girls in a class is $2/3$. If 2 boys leave and 4 girls join the class, the ratio of boys to girls become $3/2$. How many girls were there in the class originally?

- 16
- 20

- 24
- None of these

Solution:

Let,

Number of boys = $2x$ and girls = $3x$

ATQ,

$$(2x-2)/(3x+4) = 3/2$$

$$\text{Or, } 9x+12 = 4x-4$$

$$\text{Or, } 5x = -16$$

$$\text{Or, } x = (-)16/5$$

$$\text{Number of girls} = 3 \times (-)16/5$$

30. Mr. A owns 40% stack in the XYZ Company. Mr. B owns 15000 shares and Mr. C owns rest of the shares of the company. Mr. C owns 25% more shares than Mr. A. how many shares does Mr. A own?

- 45000
- 50000
- 55000
- 60000

Let,

A owns 40

C owns = $40 + 25\% \text{ of } 40 = 50$

B owns = $100 - (40+50) = 10$

10 means 15000

1 means $15000/10$

40 means $(15000 \times 40)/10 = 60000$

Section C: Intelligent Questions

(31-40) Choose the correct answer:

31. Which one is different from the rest three?

- (এই শব্দটা বোঝা যায়নি)
- Attachment
- Enmity
- Friendship

32. If a word CORNER is written as GSVRTV, how can CENTRAL be written in the code?

- GNFKER

- DFOUSBM
- GIRXVEP
- GIRDYVEP

33. Horse is related to hoof in the same way as Eagle is related to -

- Claw
- Clutch
- Leg
- Foot

34. Which of the following numbers can be placed at the sign of interrogation?

6	10	14
12	?	22
19	25	31

- 9
- 11
- 13
- 17

Exp:

A	B	C	$B = (A+C)/2$
6	10	14	
12	?	22	
19	25	31	

35. If C = 3, CEP = 24, then what will be the value of HUX?

- 69
- 49
- 51
- 53

Exp:

C=3	H=8
E=5	U=21
P=16	X=24
CEP = 3+5+16=24	HUX=8+21+2453

36. R is taller than A. V is taller than S and R. Who among them is the shortest?

- R
- S
- A
- Cannot be determined

37. A postman goes straight 7 km eastwards, then turns right and goes straight 3km and turns right again and goes straight 10 km. To what direction is he now from the starting point?

- South-west
- North-west
- North-east
- South-east

38. Which of the following words cannot be made from the word PARAPHERNALIA?

- PEAR
- PENAL
- RENAL
- PRAISE

39. R is the brother of S and M is the father of R. J is the brother of P and P is the daughter of S. Who is the uncle of J?

- P
- M
- S
- None of these

40. How many 3's are there in the following sequence which are neither preceded by 6 nor immediately followed by 9?

9 3 6 6 3 9 5 9 3 7 8 9 1 6 3 9 6 3 9

- One
- two
- three
- None of these

Analytical Ability and Critical Reasoning

(41-46): Read the information and answer the question.

When they hold a meeting, seven company executives – T, U, V, W, X, Y and Z – sit at a rectangular table. Three executives sit along one side of the table, and three sit along the other side, each directly opposite one of the other three. The seventh sits at the head of the table. There is no seat at the foot of the table.

U always sits in one of the two seats farthest from the head of the table. Y and V always sit next to each other. V never sits next to Z. If Z does not sit at the head of the table, W sits there.

41. If W sits directly opposite T, X must sit next to which of the following executives?

- T
- U
- V
- Z

Exp:

Y	V	W	
			Z
U	X	T	

Or,

U	X	T	
			Z
V	Y	W	

Both cases X sits next to U.

42. If T sits directly opposite Z and next to V, which executive must sit directly opposite U?

- V
- W
- X
- Y

Exp:

Y	V	T	
			W
U	X	Z	

43. If Z sits directly opposite X, which executive must sit next to U?

- T
- V
- W
- Y

Exp:

V	Y	Z	

			W
U	T	X	

Or,

Y	V	X	
			W
U	T	Z	

44. If T and U sit immediately on either side of X, the executive sitting directly opposite X must be either

- W or V
- W or Z
- Y or V
- Y or Z

Exp:

V	Y	Z	
			W
U	X	T	

Or

U	X	T	
			Z
Y	V	W	

45. If W sits directly opposite U and next to T, the two executives sitting immediately on either side of X must be

- Y and V
- Y and W
- T and Z
- T and V

Exp:

U	V	Y	
			Z
W	T	X	

46. If Z sits at the head of the table, Y directly opposite U, and V immediately on X's left, what is the total Number of possible seating arrangements of the executives?

- 1
- 2
- 3
- 4

Exp:

U	T/W	W/T	
			Z
Y	V	X	

(47-50) Read the information and answer the questions.

47. A company is considering changing its policy concerning daily working hours. Currently, this company requires all employees to arrive at work at 8 a.m. The proposed policy would permit each employee to decide when to arrive from as early as 6 a.m. to as late as 11 a.m. The adoption of this policy would be most likely to decrease employees' productivity if the employees job functions required them to-

- work without interruption from other employees
- consult at least once a day with employees from other companies
- submit their work for a supervisors' eventual approval
- interact frequently with each other throughout the entire workday

48. While many people think of genetic manipulation of food crops as being aimed at developing larger and larger plant varieties, some plant breeders have in fact concentrated on discovering or producing dwarf varieties, which are roughly half as tall as normal varieties. Which of the following would, if true, most help to explain the strategy of the plant breeders referred to above?

- Plant varieties used as food by some are used as ornamentals by others.
- The wholesale prices of a given crop decrease as the supply of it increases.
- Crops once produced exclusively for human consumption are often now used for animal feed.
- Short plants are less vulnerable to strong wind and heavy rains.

49. A major network news organization experienced a drop in viewership in the week following the airing of a controversial report on the economy. The network also received a very large number of complaints regarding the report. The network, however, maintains that negative

reactions to the report had nothing to do with its loss of viewers. Which of the following, if true, most strongly supports the network's position?

- The other major network news organizations reported similar reductions in viewership during the same week.
- The viewers who registered complaints with the network were regular viewers of the news organization's programs.
- Major network news organizations publicly attribute drops in viewership to their own reports only when they receive complaints about those reports.
- Most network news viewers rely on network news broadcasts as their primary source of information regarding the economy.

50. In recent years many cabinetmakers have been winning acclaim as artists. But since furniture must be useful, cabinetmakers must exercise their craft with an eye to the practical utility of their product. For this reason, cabinetmaking is not art. Which of the following is an assumption that supports drawing the conclusion above from the reason given for that conclusion?

- Some furniture is made to be placed in museums, where it will not be used by anyone.
- Some cabinetmakers are more concerned than others with the practical utility of the products they produce.
- Cabinetmakers should be more concerned with the practical utility of their products than they currently are.
- An object is not an art object if its maker pays attention to the objects practical utility.

Standard Bank TAO(Cash) 2018

Analytical Proficiency

1. Find the next number in the series: 5, 7, 11, 13, 17?

- 21
- 19
- 15
- 9

$$7-5=2$$

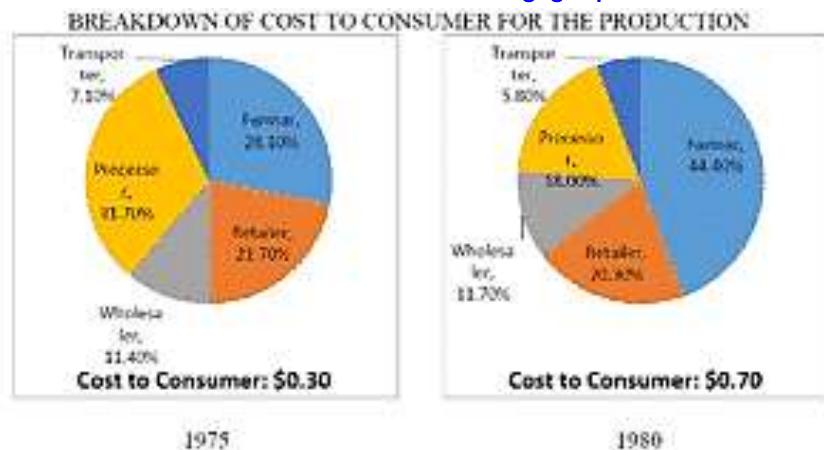
$$11-7=4$$

$$13-11=2$$

$$17-13=4$$

$$19-17=2$$

Questions. 2-3 refer to the following graphs.



2. Of the following, which is closest to the increase from 1975 to 1980 in the amount received by the processor in producing 6 ounces of frozen orange juice?

- \$0.03
- \$0.05
- \$0.06
- \$0.08

$0.3 * \frac{1}{3} = \sim 10$ cents. 18% of 0.7 ~ .14. 0.2 of 7 = 0.14 so we know its less than 0.14.

So $0.14 - 0.10 = 0.04$ we know its less than 0.4 b/c it was less than 0.14 so only answer is 0.03. Even if it is said 0.04 its still clear that A is the closest answer.

3. In 1980, approximately what fraction of the cost to the consumer for the production of 6 ounces of frozen orange juice went to the farmer?

- $\frac{3}{11}$
- $\frac{1}{3}$
- $\frac{4}{9}$
- $\frac{5}{9}$

$0.44 * 7 \sim 1/2$ Only answer choice that is valid is C. D, E are greater than 1/2 and B and A are too low. def less than 0.44%

Questions 4-8 refer to the following graphs.

Year	Item of Expenditure				
	Salary	Fuel & Transport	Bonus	Interest on Loans	Taxes
1998	288	98	3.00	23.4	83
1999	342	112	2.52	32.5	108
2000	324	101	3.84	41.6	74
2001	336	133	3.68	36.4	88
2002	420	142	3.96	49.4	98

4. What is the average amount of interest per year which the company had to pay during this period?

- 32.43
- 33.72
- 34.18
- 36.66

$$\text{Sum of Interest on Loans} = 23.4 + 32.5 + 41.6 + 36.4 + 49.4 = 183.30$$

$$\text{Average} = \text{sum/number of years} = 183.30/5 = 36.66$$

5. The total amount of bonus paid by the company during the given period is approximately what percent of the total amount of salary paid during this period?

- 0.1%
- 0.5%
- 1.0%
- 1.25%

Answer: 1.0%

$$\text{Sum of salary} = 1710$$

$$\text{Sum of bonus} = 17$$

$$\% = (17/1710) \times 100 = 0.99 = 1.0\%$$

6. Total expenditure on all these items in 1998 was approximately what percent of the total expenditure in 2002?

- 62%
- 66%
- 69%
- 71%

Total Expenditure in 1998 = $288+98+3+23.4+83 = 495.4$

Total Expenditure in 2002 = $420+142+3.96+49.4+98 = 713.36$

% = $(495.4 / 713.36) \times 100 = 69.44\% = 69\%$

7. The total expenditure of the company over these items during the year 2000 is?

- 544.44
- 501.11
- 446.46
- 478.87

total expenditure in 2000 = $324+101+3.84+41.6+74 = 544.44$

8. The ratio between the total expenditure on Taxes for all the years and the total expenditure on Fuel and Transport for all the years respectively is approximately?

- 4:7
- 10:13
- 15:18
- 5:8

Total expenditure on Taxes = 451

Total expenditure on Fuel and Transport = 586

Ratio = $451: 586 = 450: 585 = 10:13$

Choose pairs of words that best express the relationship similar to that expressed in capitalized pairs (Questions 9-10)

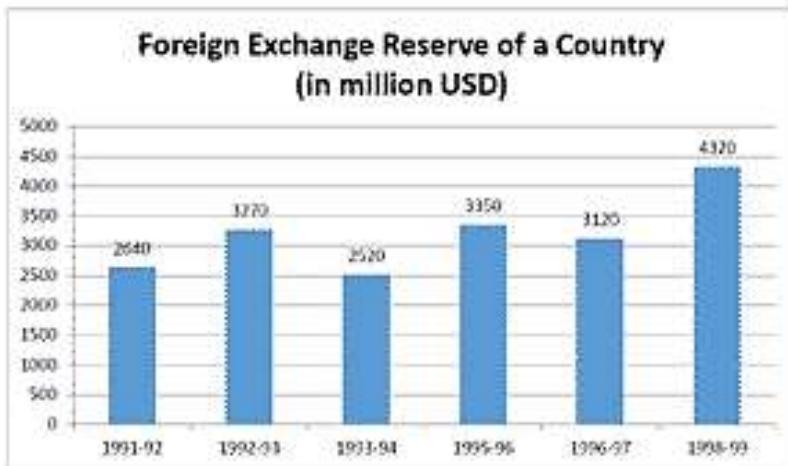
9. SYNTHESIS: CONSTRUCTION

- Artificial : Building
- Dissection : Analysis
- Excuse : Denial
- Inductive: Logical

10. CARDIOLOGY: HEART

- Pathology: Maps
- Book : Education
- Apology: Sorry
- Pharmacology: Drug

Questions 11-15 refer to the following graphs. The bar graph given below shows the foreign exchange reserve of a country (in million USD) from 1991 - 1992 to 1998 - 1999.



11. The ratio of the number of years, in which the foreign exchange reserves are above the average reserves, to those in which the reserves are below the average reserves is?

- 2.6
- 3.4
- 3.5
- 4.4

Average foreign exchange reserves over the given period = 3480 million US \$.

The country had reserves above 3480 million US \$ during the years 1992-93, 1996-97 and 1997-98, i.e., for 3 years and below 3480 million US \$ during the years 1991-92, 1993-94, 1994-95, 1995-96 and 1998-99 i.e., for 5 years.

Hence, required ratio = 3 : 5.

12. The foreign exchange reserve in 1997-98 was how many times that in 1994-95?

- 7
- 2
- 4
- 5

Answer: 1.5

Required ratio = $5040/3360 = 1.5$

13. For which year, the percent increase of foreign exchange reserves over the previous year, is the highest?

- 1992-93
- 1993-94
- 1994-95
- 1996-97

There is an increase in foreign exchange reserves during the years 1992 - 1993, 1994 - 1995, 1996 - 1997, 1997 - 1998 as compared to previous year (as shown by bar-graph).

The percentage increase in reserves during these years compared to previous year are:

$$\text{For 1992 - 1993} = \{(3720-2640)/2640\} \times 100 = 40.91\%$$

$$\text{For 1994 - 1995} = \{(3360-2520)/2520\} \times 100 = 33.33\%$$

$$\text{For 1996 - 1997} = \{(4320-3120)/3120\} \times 100 = 38.46\%$$

$$\text{For 1997 - 1998} = \{(5040-4320)/4320\} \times 100 = 16.67\%$$

Clearly, the percentage increase over previous year is highest for 1992 - 1993.

14. The foreign exchange reserves in 1996-97 were approximately what percent of the average foreign exchange reserves over the period under review?

- 95%
- 110%
- 115%
- 125% (Correct)

Average foreign exchange reserves over the given period

$$= \{1/8 \times (2640 + 3720 + 2520 + 3360 + 3120 + 4320 + 5040 + 3120)\} \text{ million}$$

US\$

$$= 3480 \text{ million US \$}.$$

Foreign exchange reserves in 1996 - 1997 = 4320 million US \$.

$$\text{Required percentage} = (4320/3480) \times 100 = 124.14\% = 125\%$$

15. What was the percentage increase in the foreign exchange reserves in 1997-98 over 1993-94?

- 100
- 150
- 200
- 620 (Correct)

Foreign exchange reserves in 1997 - 1998 = 5040 million US \$.

Foreign exchange reserves in 1993 - 1994 = 2520 million US \$.

$$\text{Increase} = (5040 - 2520) = 2520 \text{ US \$}.$$

$$\text{Percentage Increase} = (2520/2520) \times 100 = 100\%$$

Math

16. Sadia wants to setup a fence around her rectangular rose garden. If her garden is 15 ft long and 12ft wide and the fence costs \$1.50 per foot, how much will she have to pay?

- 81
- 90
- 270
- 280

Length of fence

$$= 2(15+12)\text{ft} = 54$$

She has to pay = $54 \times 1.50 = 81$ tk

17. The midpoint of a straight line is (3,6). If one endpoint of the straight line is (4,7), what is the other endpoint?

- (2,3)
- (2,5) **(Correct)**
- (3.5)
- (1,5)

Mid point (x,y) = { $(x_1 + x_2)/2, (y_1 + y_2)/2$ }

So,

$$x = (x_1 + x_2)/2$$

$$\text{Or, } 3 = (4 + x_2)/2$$

$$\text{Or, } x_2 = 2$$

And,

$$y = (y_1 + y_2)/2$$

$$\text{Or, } 6 = (7 + y_2)/2$$

$$\text{Or, } y_2 = 5$$

End point = (2,5)

18. A garden plot turned out to be a parallelogram with base 12 ft and height 6ft. What is the area of the garden plot?

- 40
- 30
- 60
- 72 **(Correct)**

Area of parallelogram = base \times height = $12 \times 6 = 72$

19. A batsman scored 110 runs which included 3 boundaries and 8 sixes. What percent of his total score did he make by running between the wickets?

- 42%

- 45.46%
- 54.5%
- 58.6%

Run from boundaries = $3 \times 4 = 12$

Run from six = $6 \times 8 = 48$

Score made from running = $110 - (48 + 12) = 50$

Percentage = $(50 \times 100) / 110 = 45.46\%$

20. A fruit seller had some apples. He sells 40% apples and still has 420 apples. Originally, he had how many apples?

- 588
- 600
- 672
- 700

Remaining percentage of apples = $100\% - 40\% = 60\%$

ATQ,

$60\% = 420$

Or, $100\% = (420 \times 100) / 60 = 700$

21. In a certain school, 20% of students are below 8 years of age. The number of students above 8 years of age is two-third of the number of students of 8 years of age which is 48. What is the total number of students in the school?

- 72
- 80
- 120
- 100

Let the number of students be x . Then,

Number of students above 8 years of age = $(100 - 20)\% \text{ of } x = 80\% \text{ of } x$.

$80\% \text{ of } x = 48 + \frac{2}{3} \text{ of } 48$

Or, $80x/100 = 80$

Or, $x=100$

22. A father said to his son, "I was as old as you are at the present at the time of your birth". If the father's age is 38 years now, the son's age five years back was:

- 14 years
- 19 years

- 33 years
- 38 years

Let, son's present age = x

At the time of his birth, father's age was = $38-x$

ATQ,

$$38 - x = x$$

$$\text{Or, } x = 19$$

$$5 \text{ years back, son's age was } = x - 5 = 19 - 5 = 14$$

23. If $3^{(x-y)} = 27$ and $3^{(x+y)} = 243$, then x is equal to:

- 0
- 4
- 2
- 6

Given,

$$3^{(x-y)} = 27$$

$$\text{Or, } 3^{(x-y)} = 3^3$$

$$\text{Or, } x-y=3$$

$$\text{Or, } y = x-3$$

Again,

$$3^{(x+y)} = 243$$

$$\text{Or, } 3^{(x+y)} = 3^5$$

$$\text{Or, } x+y=5$$

$$\text{Or, } x+x-3=5$$

$$\text{Or, } x=4$$

24. A sum of money is to be distributed among A, B, C, D in the ratio 5:2:4:3. If C gets Tk. 1000 more than D, what is B's share?

- Tk. 500
- Tk. 1500
- Tk. 1000
- Tk. 2000

Let,

Total Taka = x

$$\text{C got} = \frac{4x}{14}$$

$$\text{D got} = \frac{3x}{14}$$

ATQ,

$$\frac{4x}{14} = \frac{3x}{14} + 1000$$

$$\text{Or, } \frac{4x}{14} = \frac{(3x + 14000)}{14}$$

$$\text{Or, } 4x = 3x + 14000$$

$$\text{Sum of proportion} = 5+2+4+3 = 14$$

Or, $x = 14000$

$$\text{So, B got} = 2x/14 = 2 \times 14000/14 \\ = 2000$$

25. Two numbers are in the ratio 3:5. If 9 is subtracted from each, the new numbers are in the ratio 12:23. The smaller number is

- 27
- 33
- 49
- 55

One number is $= 3x$

Other number is $= 5x$

ATQ,

$$(3x - 9) / (5x - 9) = 12/13$$

$$\text{Or, } 60x - 108 = 69x - 207$$

$$\text{Or, } 9x = 99$$

$$\text{Or, } x = 11$$

$$\text{Smaller one is } = 3x = 3 \times 11 = 33$$

26. A is two years older than B who is twice as old as C. If the total of the ages of A, B and C be 27, the how old is B?

- 7
- 10
- 12
- 9

$$B = 2C$$

$$\text{Or, } C = B/2$$

Again,

$$A = B + 2$$

ATQ,

$$A + B + C = 27$$

$$\text{Or, } B + 2 + B + B/2 = 27$$

$$\text{Or, } 2B + 4 + 2B + B = 54$$

$$\text{Or, } 5B = 50$$

$$\text{Or, } B = 10$$

27. Find the circumference of a circle whose diameter is 16 cm. Use 3.14 for π .

- 31.56
- 50.24
- 60
- 40

$$r = d/2 = 16/2 = 8\text{cm}$$

$$\text{So, } 2 \pi r = 2 \times 3.14 \times 8 = 50.24\text{cm}$$

28. If the width of a rectangle is increased by 25% and the length is decreased by 25%, the resulting area is what percent of the original data.

- 90%
- 100%
- 93.75%
- 1.25%

Let,

$$\text{Width} = 100 \text{ and length} = 100$$

$$\text{So, Area} = 100 \times 100 = 10000$$

After increase and decrease of width and length,

$$\text{Width} = 125, \text{ and length} = 75$$

$$\text{So, new area} = 75 \times 125 = 9375$$

$$\% = (9375 \times 100) / 10000 = 93.75$$

29. Three candidates contested an election and received 1136, 7636 and 11628 votes respectively. What percentage of the total votes did the winning candidate get?

- 57%
- 65%
- 70%
- 40%

$$\text{Total votes} = 1136 + 7636 + 11628 = 20400$$

$$\% = (11628 \times 100) / 20400 = 57\%$$

30. A bag contains 6 black and 8 white balls. One ball is drawn at random. What is the probability that the ball drawn is white?

- $3/4$
- $4/7$
- $1/8$

➤ 3/7

Total outcomes = $8+6=14$

So, probability = $8/14 = 4/7$

English

31. Find the correctly spelt word from the following:

- Surveillance
- **Surveillance**
- Surveillance
- Surveilance

32. What is the antonym of the word ‘EVASIVE’?

- Free
- Honest
- Liberal
- **Frank**

33. What is the antonym of the word VIOLENT?

- Humble
- Harmless
- **Gentle**
- Tame

34. What is the synonym of the word “RELINQUISH”?

- Abdicate
- **Renounce**
- Possess
- Deny

35. What is the synonym of the word ‘REPEAL’?

- Sanction
- Perpetuate
- Pass
- **Cancel**

36. What is the correct meaning of the phrase “To leave someone in the lurch”?

- To come to compromise with someone

- Constant source of annoyance to someone
- To put someone at ease
- To desert someone in his difficulties

37. Find the SIMPLE form of the sentence, 'I heard that she was singing.

- I heard her to sing.
- I heard her singing
- I heard her being sing
- I heard her song

38. Which one is noun?

- Nostalgic
- Nostalgical
- Nostalgia
- Nostalgica

Fill in the Blanks (Questions 39-41)

39. His conduct is bad, and his honesty is not _____ suspicion.

- above
- beyond
- under
- in

40. She _____ a brief appearance at the end of party.

- put on
- put in
- put across
- put up

41. Fate smiles _____ those who untiringly grapple with stark realities of life.

- with
- over
- on
- round

Correct the underlined part of the sentence (Questions 42-45):

42. We don't know how did the thief made an escape.

- how the thief did make
- how the thief does make
- how the thief made

- how was the thief made

43. He dislikes the word dislike, isn't he?

- didn't he
- doesn't he
- hasn't he
- does he

44. Can you tell me why did you not speak the truth?

- why did not you speak
- that why did you not speak
- why you did not speak
- why did you not spoke

45. He found the gold coin as he cleans the floor.

- as he had cleaned
- while he cleans
- which he is cleaning
- while cleaning

General Knowledge

46. Which European country first recognized Bangladesh as a sovereign state?

- Albania
- East Germany
- Poland
- Romania

47. Mojibnagar situated at

- Chuadanga
- Nababganj
- Sadkhira
- Meherpur

48. Which sector of economy in Bangladesh contributes most of GDP?

- Agriculture
- Industry
- Service
- Textile

49. Proposed Garments Industry Park will be constructed at

- Gajaria, Munshiganj
- Tangi, Gazipur
- Baushia, Munshiganj
- Valuka, Mymensingh

50. 'Industrial Police started its action in Bangladesh from

- 31 December 2010
- 31 October 2010
- 30 October 2010
- 30 September 2010

Writing Ability Test

51. Write a paragraph on “Blue Economy in Bangladesh”. 10

Answer: পরে দেওয়া হবে।

52. Translation (English to Bengali)

A. China's surplus with the United States hit a record last month.

মার্কিন যুক্তরাষ্ট্রের সঙ্গে চীন এর উত্তৃত গত মাসে রেকর্ড সৃষ্টি করেছে।

B. Many businessmen went into hiding failing to repay their loans in this country.

এই দেশে অনেক ব্যবসায়ী খাণ পরিশোধ করতে না পেরে গা ঢাকা দেয়।

C. Religious enforcement has far-reaching impacts in villages that go beyond freedom of expression.

গ্রামগুলোতে ধর্মের ব্যবহারের এমন সুদূরপ্রসারী প্রভাব রয়েছে যা স্বাধীন মত প্রকাশে বাধা দেয়।

D. Yet even after having a booming economy, millions of youth are struggling with unemployment.

একটি দ্রুত উন্নয়নশীল অর্থনীতি থাকার পরেও, লক্ষ লক্ষ যুবক বেকারত্বের সাথে লড়াই করছে।

E. Depending completely on some institution to curb was unemployment is not an ideal option.

বেকারত্বকে নিয়ন্ত্রণ করার জন্য কিছু প্রতিষ্ঠানের উপর সম্পূর্ণ নির্ভরশীলতা আদর্শ আদর্শ বিক ল্ল নয়।

53. Translation (Bengali to English) 5

A. প্রাকৃতিক উৎসের মাছে বাংলাদেশ বিশ্বে তৃতীয়।

In natural source of fishes, Bangladesh is in the third position in the world.

B: ব্যাংকের কার্যক্রমে অবিশ্বাস দেখা দিয়েছে।

There is unrest in banking activities.

C, শিক্ষা এবং স্বাস্থ্য সরকারে কম ব্যয় করে বাংলাদেশ।

Bangladesh spends the lowest in education and health sector.

D, ব্যবসা ও যোগাযাংগ প্রযুক্তি খাতে সাইবার হ্রদকি বাড়ছে।

Cyber threats in the business and technology sector are increasing.

E. শীত, গ্রীষ্ম, শরৎ সব ঋতুতেই চলছে বৃষ্টির দাপট।

Rain has its occupation on all seasons whether it is winter, summer or rainy season.

Mathematics (5×2=10)

54. In a mixture 60 litres, the ratio of milk and water 2:1. If this ratio is to be 1:2, then estimate the quantity of water in litre to be further added in the mixture.

Quantity of milk = $(60 \times 2/3)$ litres = 40 litres

Quantity of water = $(60-40)$ litres = 20 litres

New ration = 1:2

Let,

X litres of water to be added.

ATQ,

$$\{ 40/(20+x) \} = 1/2$$

$$\text{Or, } 20+x = 80$$

$$\text{Or, } x=60$$

Quantity of water to be added = 60 litres.

55. If $x = 3 + 22$, then find the value of $\sqrt{x} - 1/\sqrt{x}$

Now,

$$\sqrt{x} - 1/\sqrt{x} = \sqrt{25} - 1/\sqrt{25}$$

$$= 5 - 1/5 = 24/5$$

Given,

$$x = 3 + 22$$

$$\text{Or, } x = 25$$

এরকম আরো ফাইল পেতে আমাদের সাথেই থাকুন।

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