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TCS NQT October 2020 All Slots Questions and Answers presented by KNOWLEDGE GATE EDUVENTURES

[Note: We will be posting video solutions of these questions on our youtube channel very soon, so do subscribe to our Youtube Channel and press Bell Icon to receive instant notifications as soon as video solutions are posted.

Youtube Channel Link: <http://tiny.cc/kghindi>]

1. The questions showcased in this document have been recreated through memory, thanks to test-takers who recalled the questions post their test.
2. Many Questions in the actual TCS NQT exam did not had correct answer in options. In this case please take the liberty to mark any option.

25 October 2020 Slot 1(8 AM to 11 AM)

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Numerical Ability

Q1. A sales representative's commission is 6% on all sales up to Rs.15000 and 5% on all sales exceeding this. He remits Rs.47350 to his company after deducting his commission. What were the total sales?

- A. Rs.50000
- B. Rs.49000
- C. Rs.47500
- D. Rs.50500

Answer: Option A

Q2. When the List Price (LP) of an article is fixed at 30% above the Cost Price (CP), and while selling the same, it is subject to a discount of $x\%$, the profit percentage is 80% of that when the LP is fixed at 25% above the CP and the discount is 16%. What is the value of x ?

- A. 3.6
- B. 3.25
- C. 3
- D. 3.84

Q3. The ratio of the average speeds of two sprinters A and B is 8:7. In a racing track if B starts at a distance 2m ahead of A, at what distance (in metre) from the starting point of B would A catch up with B?

- A. 2.8
- B. 1.5
- C. 0.4
- D. 4.4

All the answer options are wrong.

Correct answer: 14

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Q4. A sum invested in compound interest (CI) at a certain rate for three years earns the same interest as it would earn by way of an investment in simple interest (SI) at the rate of 18.2% for four years. How much more or less is the percentage rate in case of the CI than that in the case of the SI?

- A. 21.25
- B. 18.43
- C. 16.52
- D. 20.63

All the answer options are wrong.

Correct answer: +1.8%

Q5. With symbols having their usual meanings the mean of the data given below is 39.2.

x	36	40	35	44
f	10	13	12	

What is the missing frequency?

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- A. 125.2
- B. 124.6
- C. 124.2
- D. 123.8

All the answer options are wrong.

Correct answer: 15

Q6. What is the fourth proportional of the mean proportionals between $(4, 6.25)$; $(0.0027, 300)$; $(1.2 \times 10^{-3}, 3)$?

- A. 4.8
- B. 48
- C. 36
- D. 3.6

All the answer options are wrong.

Correct answer: 43.92

Q7. What is the mean Deviation from the median for the data given below?

Data: 34, 46, 28, 48

- A. 64
- B. 53
- C. 66
- D. 51

All the answer options are wrong.

Correct answer: 8

Q8. In a competitive exam, 5 marks are awarded for every correct answer and for every wrong answer, 2 marks are deducted. Sathwik got 32 marks in this examination. If 4 marks has been awarded for each correct answer and 1 mark had been deducted for each incorrect answer, Sathwik would have scored 34 marks. If Sathwik attempted all the questions, how many questions were there in the test?

- A. 20

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- B. 14
- C. 12
- D. 26

Answer: Option D

Q9. Raju lends Rs. 3000 to Bharath and a certain sum to Charan at the same time at 6% per annum simple interest. If after 5 years, Raju altogether receives Rs. 1650 as the interest from Bharath and Charan, what is the sum lent to Charan?

- A. Rs. 2500
- B. Rs. 2750
- C. Rs. 3250
- D. Rs. 3300

Answer: Option A

Q10. What is the difference between the Range and the Standard Deviation of all the natural numbers between 81 and 90, both inclusive?

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- A. 7
- B. 11
- C. 9
- D. 8

All the answer options are wrong.

Correct answer: 7.13

Q11. What is the simplified value of:

$$\frac{1.782+1}{1.24} + \frac{1-0.343}{2.19}?$$

- A. 0.4
- B. 0.08
- C. 0.8
- D. 0.04

All the answer options are wrong.

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Correct Answer: 2.54

Q12. The area of a sector, with central angle 15° , of a circle is 231 sq cm. If $\pi = 22/7$, what is the circumference (in cm) of the circle?

- A. 2.8
- B. 1.45
- C. 2.1
- D. 2.45

All the answer options are wrong.

Correct answer: 264

Q13. The total surface area of a solid hemisphere is 75 times the area of a circle whose diameter is 6 cm. What is the radius (in cm) of the hemisphere?

- A. 80π
- B. 120π
- C. 100π
- D. 50π

All the answer options are wrong.

Correct Answer: 15

Q14. A takes 10 days less than B to complete a work, and together they do it in 12 days. In how many days can B alone do the work?

- A. 9
- B. 12
- C. 10
- D. 6

All the answer options are wrong.

Correct Answer: 30 days

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Q15. A shopkeeper calculated his profit as 12% with the selling price of an article as the base. What would have been his actual profit percentage if the selling price was 20% more?

- A. 20
- B. 24
- C. 23
- D. 21

All the answer options are wrong.

Correct Answer: 36.66%

Q16. The sum of ages of two friends is 74. After one year the ratio of their ages will be 9:10. What was the ratio of their ages nine years ago?

- A. 4:3
- B. 3:2
- C. 13:12
- D. 7:6

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All the answer options are wrong.

Correct Answer: 13:15

Q17. The table below presents the data of atmospheric pressure (in area of mercury) at a place at four different times of the day during four days P, Q, R, S. A steady rise in atmospheric pressure indicates a fair weather. On which of the given days was the weather fair?

Time/Day	A	B	C	D
0600	742	765	754	761
1000	778	767	755	770
1400	762	745	757	775
1800	760	756	758	774
2200	768	752	760	762

A. 324:283

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- B. 81:73
- C. 326:293
- D. 28:25

All the answer options are wrong.

Correct answer: C

(Also please note that Days are marked as P, Q, R, S in the question but in the options it is given as A, B, C, D)

Q18. In case of frequency distribution for ten continuous classes, the class width is 4 and the lower class limit of the lowest class is 8. What is the upper class limit for the highest class?

- A. Both R&S
- B. R Only
- C. Neither R nor S
- D. S only

All the answer options are wrong.

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Correct Answer: 48

Q19. What is the simplified value of:

$$(2\frac{3}{4} + 2\frac{1}{2} \text{ of } \frac{5}{2}\frac{1}{7}\frac{\frac{1}{3}}{2\frac{1}{2}}) / (5\frac{1}{12} \times \frac{5}{19})?$$

- A. 4
- B. 5
- C. 6
- D. 2

Answer: Option B

Q20. 10 men can complete a work in 8 days and 10 women take 12 days to complete the same work. How many days will 3 men and 6 women take to complete the same work?

- A. $11\frac{3}{7}$
- B. $9\frac{3}{7}$
- C. $10\frac{3}{7}$
- D. $12\frac{3}{7}$

Answer: Option A

Q21. A retailer purchases several pens of same cost for Rs.384 and then sells some of them for Rs.114 at no loss or gain. What is the least possible number of pens that he will be left with?

- A. 9
- B. 7
- C. 8
- D. 3

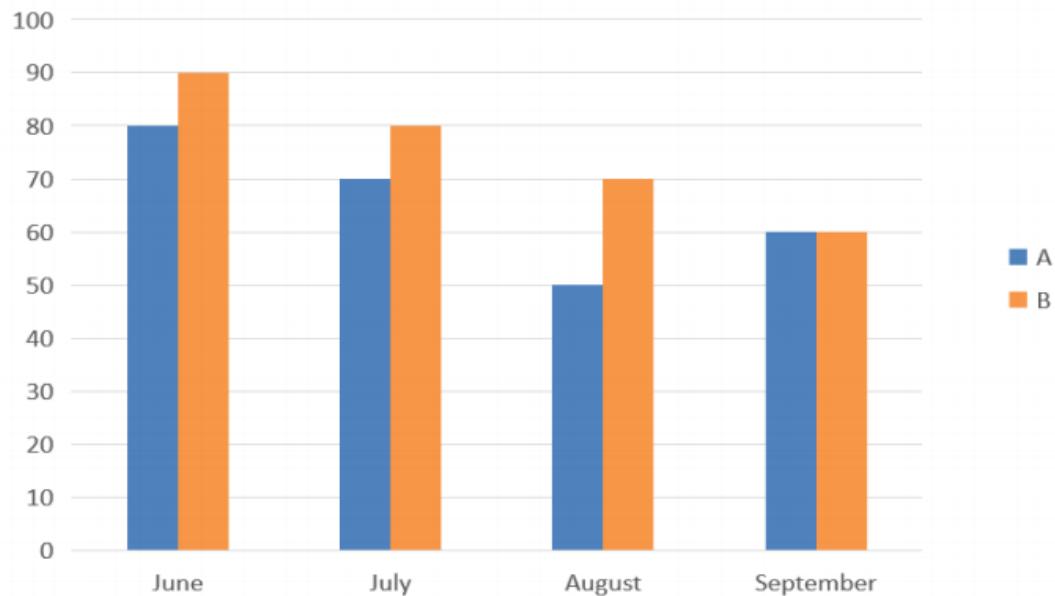
All the answer options are wrong.

Correct answer: 45

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Q22. The percentage marks scored by two students A and B at four consecutive monthly tests are depicted in the Bar Graph given below. In which month is the percentage marks scored by B 40% more than that by A?



A. 2014

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- B. 2013
- C. 2012
- D. 2015

All the options are wrong

Correct Answer: August

Verbal Ability

Q1. For the four sentence (S1 to S4) paragraph given below, sentences S1 & S4 are given. From the options P,Q and R, choose appropriate sentences for S2 & S3 respectively.

S-1: Gianni Crea, the head key-keeper of the vatican, is intimately familiar with the contours of history

S-2:

S-3:

S-4: They traverse a 4.6 mile route through the museums which see up to 28,000 visitors per day.

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- P. Almost every morning for the past 6 years he's opened the doors to the vatican museums.
- Q. Crea and the team of 10-five each on the morning and evening shifts-open and close 300 doors everyday, mobilizing about 700 employees along with them.
- R. Crea has worked in the Vatican for 20-years and as head key-keeper for six.
- A. QR
B. QP
C. RP
D. PQ

Answer: Option D

Q2 to Q3. Direction: Read the passage given below and answer questions:

When behavioral ecologist Liz Derryberry saw a news report of coyotes crossing the Golden Gate Bridge in March, she immediately thought of her birds. For over a decade, Derryberry has studied the white-crowned sparrow and how urban noise has disrupted and degraded the species' ability to communicate.

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With most San Franciscans staying at home due to the coronavirus pandemic, she decided to seize an unprecedented opportunity to study how this small, scrappy songbird responded when human noises disappeared.

“I realized we gotta do this, and we gotta do this now,” she says.

By recording the species’ calls among the abandoned streets of the Bay Area in the following months, Derryberry and colleagues have revealed that the shutdown dramatically improved the birds’ calls, both in quality and efficiency. Male birds in particular rely on their songs to defend territory and find mates.

“The songs didn’t change as much as we predicted—they changed even more,” says Derryberry, of the University of Tennessee, Knoxville. “It highlights just how big of an effect noise pollution has.”

The research, published today in *Science*, is among the first to scientifically evaluate the effects of the pandemic on urban wildlife. It also adds to a burgeoning field of research into how the barrage of human-made noise has disrupted nature, from ships drowning out whale songs to automobile traffic jamming bat sonar.

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Q2. What purpose do the calls of the birds serve?

- A. They help them locate other birds.
- B. They show them the direction during flight.
- C. They help the male secure their territory.
- D. They assist them in finding food.

Answer: Option C

Q3. The passage is primarily about the impact of the pandemic on _____.

- A. whales
- B. sparrows
- C. coyotes
- D. bats

Answer: Option B

Q4. The results of Derryberry and her companion's research were unexpected because _____.

- A. The bird songs became louder and better when human noises reduced.
- B. The bird songs became fewer and less audible when fewer humans watched them.
- C. It revealed that birds did not change their songs or their other habits.
- D. It showed that birds migrated from their original homes due to the pandemic.

Answer: Option A

Q5. Which word does the writer use to describe the extent of research on normal pollution?

- A. Disrupted
- B. Improved
- C. Burgeoning
- D. Drowning

Answer: Option C

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Q6 to Q9. Direction: Read the passage given below and answer questions:

Archaeology is based on the scientific method. Archaeologists ask questions and develop hypotheses. They use evidence to choose a dig site, then use scientific sampling techniques to select where on the site to dig. They observe, record, categorize, and interpret what they find. Then they share their results with other scientists and the public.

Underwater archaeologists study materials at the bottom of lakes, rivers, and oceans.

Underwater archaeology encompasses any prehistoric and historic periods, and almost all sub-disciplines as archaeology. Artifacts and features are simply submerged.

Artifacts studied by underwater archaeologists could be the remains of a shipwreck. In 1985, National Geographic Explorer-in-Residence Dr. Robert Ballard helped locate the wreck of RMS Titanic, which sank in the North Atlantic Ocean in 1912, killing about 1,500 people. Ballard and other scientists used sonar to locate the wreck, which had been lost since the ocean liner sank. By exploring Titanic using remote-controlled cameras, Ballard and his crew discovered facts about the shipwreck (such as the fact the ship broke in two large pieces as it sank) as well as hundreds of artifacts, such as furniture, lighting fixtures, and children's toys.

Underwater archaeology includes more than just shipwrecks, however. Sites include hunt camps on the continental shelf of the Gulf of Mexico, and portions of the ancient city of Alexandria, Egypt, submerged due to earthquakes and sea level rise.

Q6. Which option gives the correct order of the process followed by archaeologists?

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- A. Observe, apply evidence, record, dig a site, ask questions, interpret, share, categorize, develop hypotheses.
- B. Ask questions, develop hypotheses, apply evidence, dig a site, observe, record, categorize, interpret, share.
- C. Dig a site, interpret, ask questions, observe, apply evidence, categorize, share, develop hypotheses, record.
- D. Categorize, develop hypotheses, apply evidence, ask questions, record, dig a site, interpret, observe, share.

Answer: Option B

Q7. What significant information did Dr. Robert Ballard discover about the RMS Titanic?

- A. That the liner had broken into two while sinking.
- B. That 1500 people were on board the liner.
- C. That the ship had sunk in the North Atlantic ocean.
- D. That children's toys, furniture, and artifacts had also sunk with the ship.

Answer: Option A

Q8. Which of the following are underwater archaeologists most unlikely to find?

- A. Evidence of previous excavations
- B. Artifacts and prehistoric features.
- C. Portions of an ancient city.
- D. Remains of a shipwreck.

Answer: Option C

Q9. According to the passage, which was the research technology used by Underwater Archaeologists to get the most effective visual feedback of the artifacts?

- A. Remote controlled cameras
- B. Miniature submarines
- C. Sonar Technology
- D. Scuba diving teams with cameras

Answer: Option C

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Q10. The following sentence can be revised into one better sentence. Choose the sentence that is the best revision:

I was at the fair.I got lost.I got scared.

- A. I got lost at the fair and was scared.
- B. I went to fair and got scared as I was lost
- C. I am scared after I am lost at the fair
- D. I am lost at the fair so I am too scared

Answer: Option A

Q11. Which of the following sentences does NOT use informal language?

- A. I sincerely apologise for the oversight.
- B. Can we sort this out together?
- C. Thanks a lot for sharing this information.
- D. This is a high-priority account, take care!

Answer: Option A

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Q12. For the four-sentence (S1 to S4) paragraph below, sentences S1 and S4 are given. From the options P, Q and R, choose the appropriate sentences for S2 and S3 respectively.

S-1: Finland's Helsinki Airport is using a unique method for screening arriving passengers for COVID-19 - specially-trained dogs that can detect the virus in humans - even before they show any symptoms

S-2:

S-3:

S-4: According to the press release: "The dog will perform its work in a separate booth so that the fear of spreading the infection is reduced."

P. Those taking the test will swipe their skin with a test wipe and drop it into a cup, which is then given to the dog.

Q. Upon arrival at the airport, passengers may be asked to volunteer for the program, and if they agree, are given a wipe to collect a sweat sample.

R. More dogs are currently being trained and should be available for the screening procedure in a few months.

- A. RP
- B. RQ
- C. PQ

Answer: Option D

Q13. Select the most appropriate options to complete the sentence.

While MSMEs are waiting _____ the release _____ around Rs. five lakh crore pending payments, no major relief has come their way so far.

- A. to, with
- B. of, at
- C. for, of
- D. from, on

Answer: Option C

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Q14.Select the most appropriate option to fill in the blank.

The security guard _____ leave ended two days ago has not yet reported to work.

- A. Whose
- B. Who
- C. Whom
- D. Which

Answer: Option A

Q15. One part of the sentence below may contain error. Identify the part. If there is no error, choose 'No error'.

Either Rahul or Rohit accompany their grandmother and grandfather whenever they go to the hospital

- A. Either Rahul or Rohit accompany
- B. their grandmother and grandfather
- C. No error
- D. whenever they go to the hospital

Answer options were wrong

Correct Answer: Option A and Option B

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Q16. For the four-sentence (S1 to S4) paragraph below, sentences S1 and S4 are given. From the options P, Q and R, choose the appropriate sentences for S2 and S3 respectively.

S-1: COVID-19 spreads mainly among people who are in close contact (within about 6 feet) for a prolonged period.

S-2:

S-3:

S-4: Since people can spread the virus before they know they are sick, it is important to stay at least 6 feet away from others, when possible, even if you--or they--do not have any symptoms.

P. Social distancing is especially important for people who are at higher risk for severe illness from COVID-19.

Q. Spread happens when an infected person coughs, sneezes, or talks, and droplets from their mouth or nose are launched into the air and land in the mouths or noses of people nearby.

R. The droplets can also be inhaled into the lungs.

- A. PQ
- B. RP
- C. RQ
- D. QR

Answer: Option D

Q17. You are going to read a text about an interesting initiative. Some sentences are missing from the text. Choose from the list(A-C) the most appropriate sentence for each gap (1-2) in the text. There is one extra sentence that you do not need to use.

This year's Covid-19 pandemic has introduced a wide swath of Americans to the joys of gardens and gardening.(1)_____ American's Rose Center is seeking Volunteers to participate during its upcoming Volunteer Days from 8 a.m. to 3 p.m. on oct 23 and 24. (2)_____ Mask wearing and social distancing will be observed and a brown bag lunch will be provided to all who register.

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- A. Volunteers are welcome to come and work in the garden any time during the two days
- B. The fresh air and other healthful benefits of outdoor exercise, together with the good feeling of accomplishing some useful have drawn many to begin gardening or increase activities in the garden.
- C. After the tour, Volunteers will be guided through tasks by garden team leaders.
 - A. 1-A,2-C
 - B. 1-C,2-A
 - C. 1-B,2-A
 - D. 1-C,2-B

Answer: Option C

Q18. One part of the sentence below may contain an error. Identify the part.

Something about the way he spoke stuck a bell in Lauren's mind.

- A. in Lauren's mind
- B. way he spoke
- C. stuck a bell
- D. Something about

Answer: Option D

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Q19. The exotic remedies for some illnesses have been _____ from generation to generation in the tribe.

- A. Handed down
- B. Handed over
- C. Handed in
- D. Handed out

Answer: Option A

Q20. Complete the following sentence by filling in the blanks (1) and (2) with the right word from the list given below:

Compared with conventional agriculture, organic farming uses fewer pesticides, reduces soil erosion, decreases nitrate leaching into groundwater and surface water, and _____ animal wastes back into the farm. These benefits are _____ by higher food costs for consumers and generally lower yields.

- 1.A. recycling
- B. recycle
- C. recycles
- D. recycled

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2. A. Increased B. balanced C. counterbalanced D. encountered

- A. 1-D,2-B
- B. 1-D,2-A
- C. 1-C,2-C
- D. 1-B,2-D

Answer: Option C

Q21. You are going to read a text about fighting pollution. Some sentences are missing from the text. Choose from the list (A-C) the most appropriate sentence for each gap(1-2) in the text. There is one extra sentence that you do not need to use.

A team of scientists at the university of Portsmouth in England has developed a new enzyme that has the ability to break down plastics six times faster than standard enzymes; according to CNN (1) _____ in reducing the amount of non-biodegradable plastic on the earth Enzymes have been used to help combat pollution by breaking polyethylene terephthalate(PET) chain molecules, the most common thermoplastic that makes up everyday items like single-use bottles, clothing and carpets.(2)_____. The first altered enzyme was called PETase, which will now be connected with MHETase to create the university's new enzyme protein. Between these two enzymes connecting, PET chains in plastic were found to breakdown twice as fast as PETase alone.

- A. The researchers who had earlier engineered an enzyme found within bacteria of plastic bottles, combined it with a second enzyme to accelerate the breakdown of plastics.
 - B. A tool called the diamond light source was used to map the molecular structure of MHETase.
 - C. Enzymes, proteins that are key components in chemical reactions within the human body, act as catalysts that speed up the breakdown of substances.
-
- A. 1-C,2-A
 - B. 1-A,2-B
 - C. 1-B,2-C
 - D. 1-B,2-C

Answer: Option A

Q22. One part of the sentence below may contain an error. Identify the part. If there is no error, choose 'No error'.

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Whatever she said in her defence was not taken seriously by the investigating authorities.

- A. was not taken seriously
- B. No error
- C. by the investigating authorities
- D. Whatever she said in her defence

Answer: Option D

Q23. As we scrutinize our own faces for wrinkles and flaws, we can fail to notice what a marvelous organ the face is. Our faces are the most (1) _____ part of our visible body, a mysterious mosaic of the physical and psychical. Faces are the body's workaholics. They confer and confirm identity, express emotion, communicate meaning, perform (2) _____ functions necessary for life and enable us to experience the world through our senses.

Blank 1: A.distinctive B.typical C.average D.classic

Blank 2: A. Plain B.basic C.needed D.compulsory

- A. 1-A,2-B
- B. 1-C,2-B
- C. 1-D,2-C
- D. 1-B,2-A

Answer: Option A

Q24. You are going to read a text about fighting pollution. Some sentences are missing from the text. Choose from the list (A-C) the most appropriate sentence for each gap(1-2) in the text. There is one extra sentence that you do not need to use.

Disney is an international maze of parent companies and subsidiaries that leave few corners of the globe untouched. Its vast holdings are a maze of media networks, film studios, production companies, merchandising ventures, parks, resorts, distribution operations, finance firms, gaming cooperation, publishing companies, construction firms, vacation and cruise lines, music studios, and digital content providers. (1) _____ However, the company's reach spreads further than many people might think--in movies and television alone. (2) _____ Forbes ranks Disney--which employs more than 2,00,000 people--among the top 10 most powerful brands in the world and values the company at more than \$238 billion.

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- A. It is common knowledge that Disney is behind classics like “Beauty and the Beast” and “The Lion King”
- B. There’s also a seemingly endless web of companies, properties, holdings, and franchises that don’t bear the Disney name yet serve as revenue streams for the corporate empire just the same.
- C. Walt Disney World in Orlando, Florida re-opened the park in July with new safety precautions in place following months of being shut down amid the Coronavirus pandemic.
 - A. (1)-A, (2)-B
 - B. (1)-A, (2)-C
 - C. (1)-C, (2)-A
 - D. (1)-C, (2)-B

Answer: Option A

Reasoning Ability

Q1. In each of the five pairs of letter-clusters, the letters in the second term is a rearranged/transformed form of the letters in the first term in a particular pattern. In which two pairs, has the transformation been done the same way?

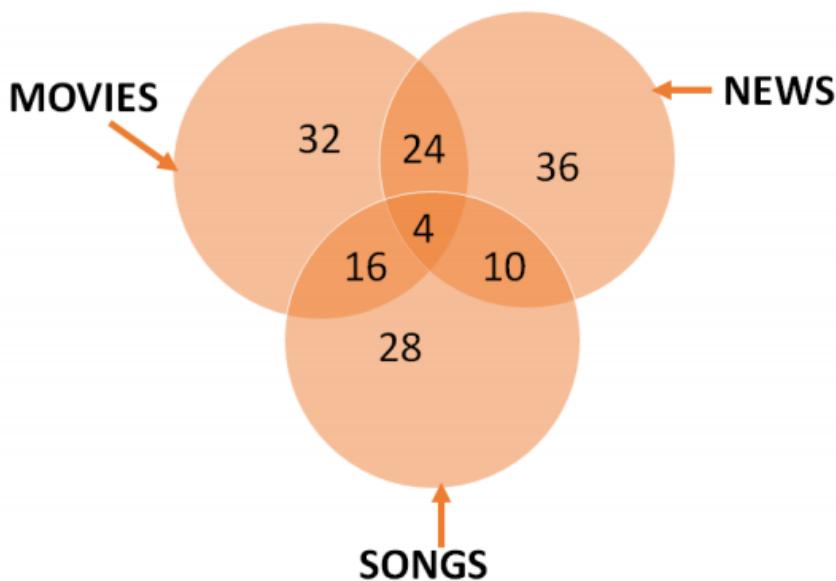
- 1. WMHSD - DSHWM
 - 2. NPKRQ - PRKQN
 - 3. HQRWK - HKWQR
 - 4. ZIGPM - PTZGM
 - 5. BWTKG - GTKBW
-
- A. 4 and 2
 - B. 1 and 5
 - C. 2 and 3
 - D. 1 and 3

Answer: Option B

Q2. Consider the Venn diagram given below.

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The number in the Venn diagram indicates the number of persons/ people watching the TV programmes. The diagram is drawn after surveying 150 persons in a population of 12,000. How many persons/ people can be expected to watch at least two TV programmes?

- A. 4320
- B. 3200
- C. 5232
- D. 5400

Answer: Option A

Q3. There are five persons in a family O,P,Q,R and S. They are working as a farmer, a teacher, a lawyer, an engineer and a doctor. P is an unmarried daughter of O and working as a teacher. S is the brother of Q, working as a lawyer. Q is the husband of the only married couple in the family. O is the father of an unmarried daughter and two sons working as a farmer. O's daughter-in-law is a doctor.

Which of the following are male members in the family?

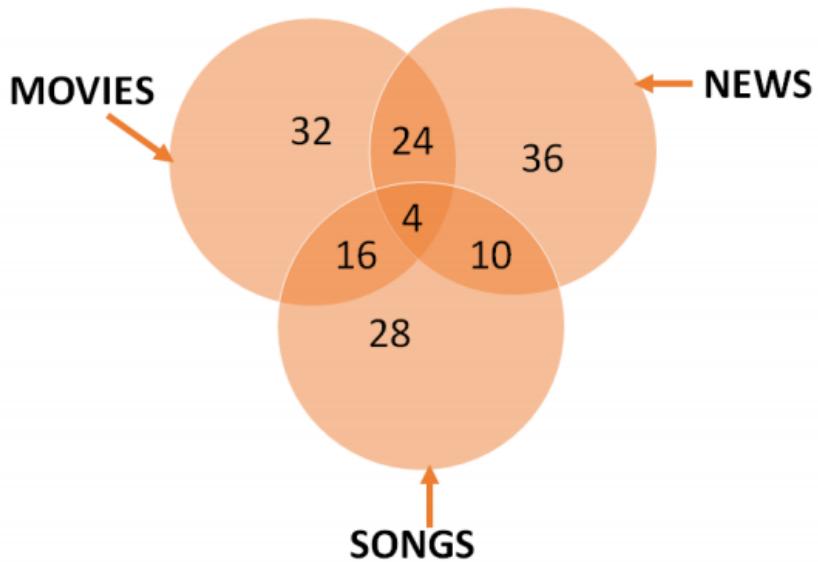
- A. R,O and S
- B. P,Q and S
- C. O,Q and S
- D. O,P and Q

Answer: Option C

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Q4. Consider the Venn diagram given below.



The number in the Venn diagram indicates the number of persons/ people watching the TV programmes. The diagram is drawn after surveying 150 persons in a population of 12,000. How many persons/ people can be expected to watch News only?

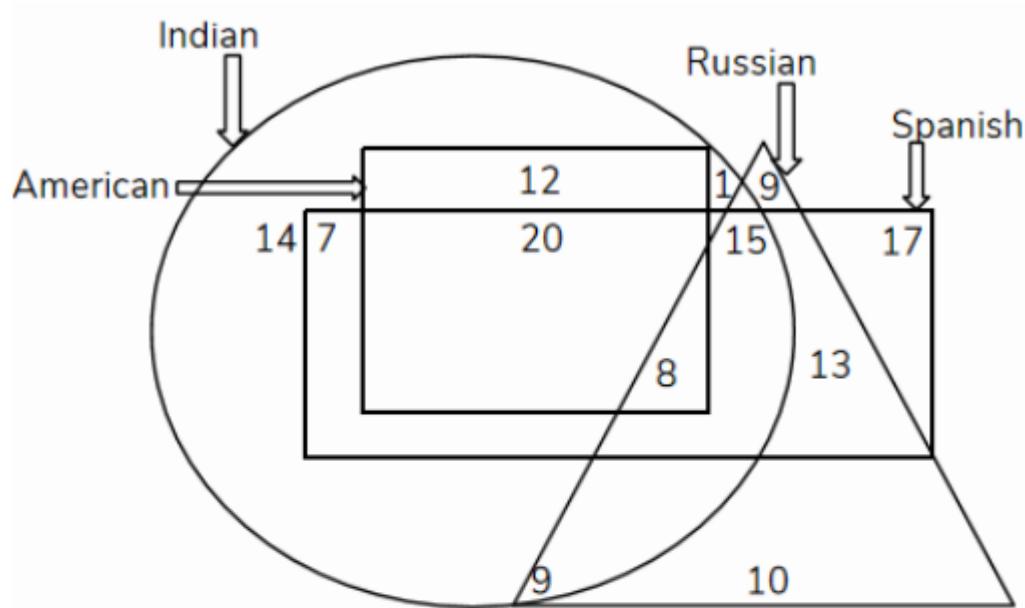
- A. 2280
- B. 3200
- C. 4320
- D. 2880

Answer: Option D

Q5. The following diagram shows the people who can speak various languages, the rectangle stand for 'Spanish'; the circle stand for 'Indian'; the triangle stands for 'Russian', and the square stands for 'American'. The numbers in different segments show the number of persons. Answer the question on the basis of the information given in the diagram.

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How many persons can speak American and Russian languages?

- A. 15
- B. 8
- C. 13
- D. 9

Answer: Option B

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Q6. A statement is followed by three courses of action numbered I, II and III. Assuming everything in the statement to be true, decide which of the suggested courses of action (a decision to be taken for follow up/ improvement in regard to the problem) logically follow.

Statement

There is a considerable increase in the number of persons infected by Corona Virus during the last few months through person to person contact and direct contact with respiratory droplets exhaled by the infected person.

Courses of Action

- I. Wear a mask when social distancing is not possible.
 - II. The Government should give adequate information through mass media regarding corona virus.
 - III. Health Centres and Facilities should be increased and fully equipped properly for the treatment of patients.
-
- A. All are implicit
 - B. Only I is implicit

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- C. Both I and II are implicit
- D. Only II is implicit

Answer: Option A

Q7. Given below is a question followed by two statements I and II, each containing some information. Decide which of the statements is/are sufficient to answer the question.

The ratio of fees of two different schools is 2:2.5. What would be the fees of the second school if discounts of 25% and 35% are given on both the schools respectively?

Statements

- I. Discount on the second school fees is Rs.8750/-
- II. Difference between the discount on the two school fees is Rs.3750/-

- A. Both statements I and II together are not sufficient
- B. Statement I alone is sufficient
- C. Either Statement I alone or Statement II alone is sufficient
- D. Statement II alone is sufficient

Answer: Option C

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Q8. The following are the criteria for selecting a candidate for the post of Assistant Manager.

The candidates must:

- I. Be a graduate in engineering in specialization of Human Resource Management with minimum 55% marks.
- II. Have three years full time experience.
- III. Have secured more than 60% in the interview and at least 70% in the written test.

However, if the candidate fulfills the above criteria expect

In case of the applicant who satisfied all other criteria except -

- (i) At I, above, but has more than five-year experience in relevant field, his/ her case is to be referred to the Management.
- (ii) At II above, but has secured more than 65% in the written test as well as in the interview, his/ her case is to be referred to the General Manager.
- (iii) At II above, but has graduated in Engineering with specialization of Human Resource Management with minimum 65% marks, his/ her case is to be referred to the General Manager.

Amit has completed his BE with 60% marks without HRM specialization but he has been working as an assistant manager in a reputed company for the last six years. He has now secured 65% in the interview and 66% in the written test.

Based on these criteria and the information provided, decide the course of action.

- A. He would be selected
- B. Refer to the HR department
- C. Refer to the General Manager
- D. Refer to the Management

Answer: Option B

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Q9. Given below is a question followed by two statements, I and II, each containing some information. Decide which of the statement(s) is/are sufficient to answer the question.

Among six persons P,Q,R,S,T and U how many are teachers?

Statements:

- I. "Q and T are teachers" is true.
- II. "At Least one of P and R is a teacher" is false and S and U's status is same as P and R
 - A. Both the statements I and II together are needed
 - B. Statement II alone is sufficient
 - C. Statement I alone is sufficient
 - D. Both the statements I and II together are not sufficient

Answer: Option A

Q10. In a certain coe, P + Q means P is the father of Q; P - Q means P is the sister of Q and P / Q means P is the brother of Q.

Which of the following equations shows that A is the uncle of D?

- A. A - D + C / B
- B. A + B / C - D
- C. A / B + C - D
- D. A - B + C / D

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Answer: Option C

Q11. Given below is a question followed by two statements I and II, each containing some information. Decide which of the statement(s) is/ are sufficient to answer the question.

What is the age of Sumit?

Statements

- I. Sumit is five years younger than Amit, who is double the age of Prateek.
 - II. Prateek is 10 years elder than Ravi, whose age is 22 years.
-
- A. The combination of both the statements I and II are not sufficient.
 - B. Statement II alone is sufficient.
 - C. Statement I alone is sufficient.
 - D. The combination of the both the statements I and II are sufficient

Answer: Option D

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Q12. Three statements are followed by four conclusions numbered I,II,III and IV. Assuming the statements to be true, even if they do not conform to real world knowledge, decide which of the conclusion(s) logically follows/follow from the statements.

Statements:

1. All clothes are shirts
2. All shirts are pants
3. All cots are pants

Conclusions:

- I. No cloth is cot
 - II. Some cots are shirts
 - III. Some pants are clothes
 - IV. Some cots are clothes
-
- A. Only either I or IV follow and III follow
 - B. Either II or I follow
 - C. Only II follow
 - D. Only III follow

Answer: Option D

Q13. A statement is followed by two assumptions numbered I and II. Consider the statement and decide which of the given assumption(s) is/are implicit in the statement.

Statement

If you have any queries, ask to me

Assumptions

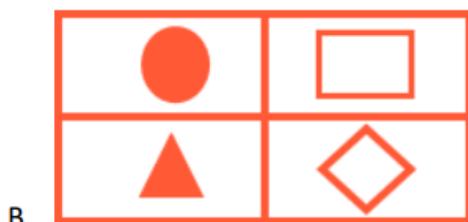
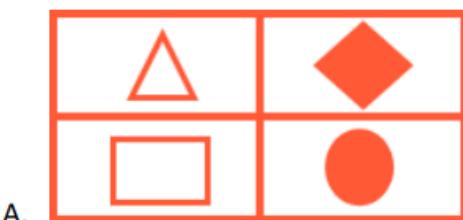
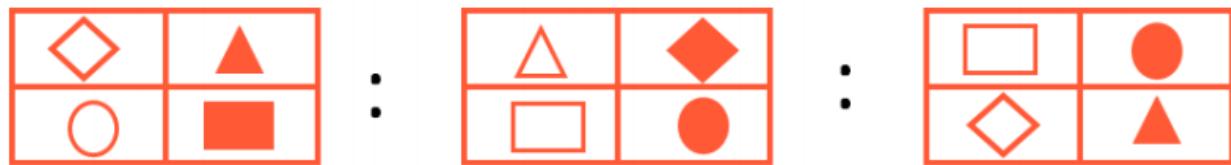
- I. You have no questions
- II. I can answer any question
 - A. Both I and II are implicit
 - B. Only I is implicit
 - C. Only II is implicit
 - D. Neither I nor II is implicit

Answer: Option D

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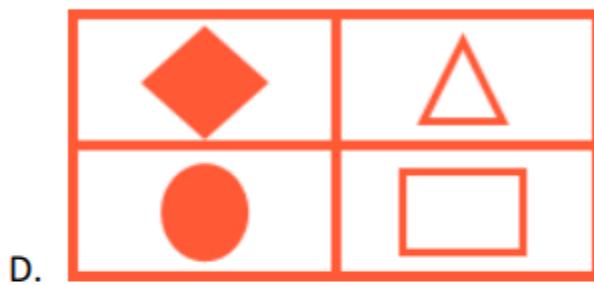
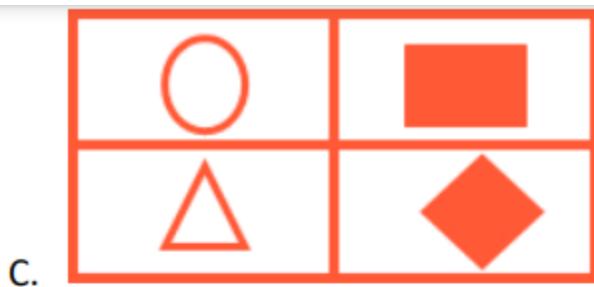
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Q14. The two figures on the left of the sign ‘::’ are related in a certain way. The same relationship holds good for the second pair of figures on the right of the sign ‘::’ of which one figure is missing. Find the missing figure from the alternatives?



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Answer: Option C

Q15. Which is the wrong term in the following series?

axc, cve, fsh, jpm, ojq, udw

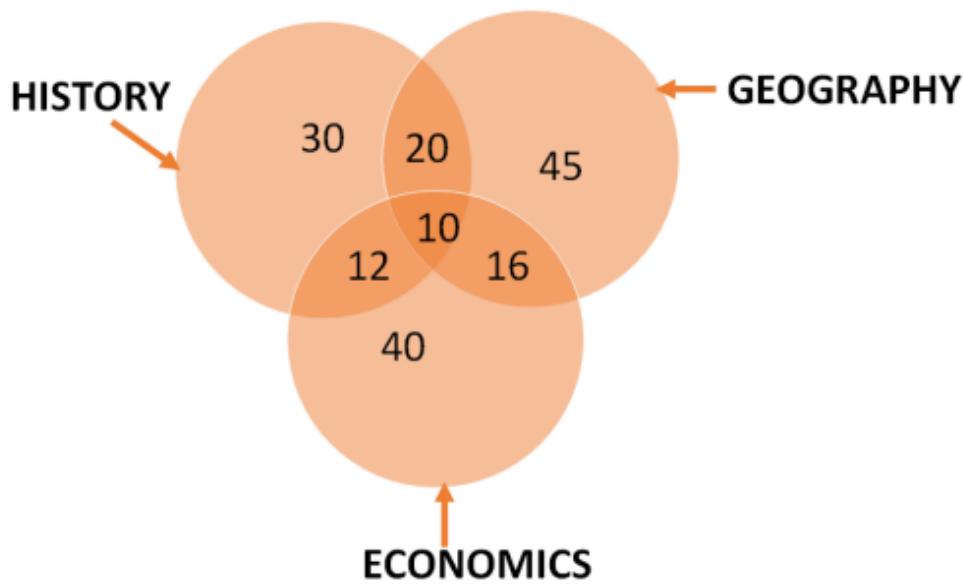
- A. fsh
- B. udw
- C. ojq
- D. jpm

Answer: Option D

Q16. The diagram given below shows the number of students who got distinction in three subjects out of 320 students. Study the diagram carefully and answer the question.

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What is the percentage of students who got distinction only in two subjects?

- A. 48
- B. 25
- C. 10
- D. 15

Answer: Option D

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Q17. Two statements are given followed by three conclusions numbered I,II and III. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusion logically follow(s) from the statements.

Statements:

All animals are plants

All plants are shrubs

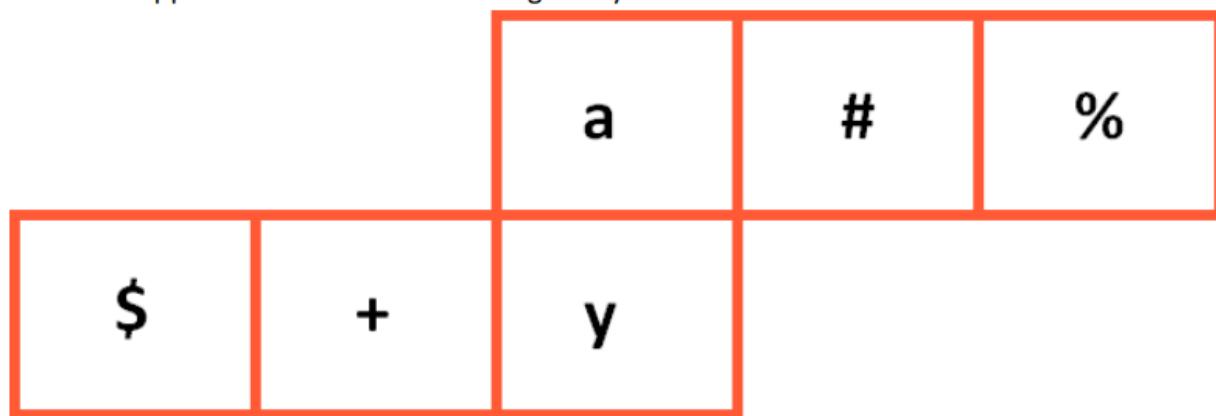
Conclusions:

- I. Some shrubs are plants
- II. Some animals are not shrubs
- III. All animals are shrubs

- A. None of the conclusion follow
- B. Only conclusion I and II follow
- C. Only conclusion I and III follow
- D. Only conclusion II follows

Answer: Option C

Q18. A cube is made by folding the given sheet. In the cube so formed, which letter/ symbol will be on the opposite face to the face having the symbol '%'?



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- A. Y
- B. a
- C. +
- D. \$

Answer: Option B

Q19. There is a certain code, $a+b$ means a is the wife of b; $a \times b$ means a is the brother of b and a/b means a is the son of b.

If T/Z \times U/W, then which of the following is true?

- A. W is the wife of Z
- B. U is the aunt of T
- C. U is the uncle of T
- D. T is the daughter of Z

Answer: Option C

Q20. The following are the criteria for selecting a candidate for the post of Assistant Manager.

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The candidates must:

- (i) Be a graduate in engineering in specialization of Human Resource Management with minimum 55% marks.
- (ii) Have three years full time experience.
- (iii) Have secured more than 60% in the interview and at least 70% in the written test.

However, if the candidate fulfills the above criteria except

In case of the applicant who satisfies all other criteria except --

- a. At (i) above, but has more than five years experience in relevant field , his/ her case to be referred to the Management.
- b. At (ii) above, but has secured more than 65% in the written test as well as in the interview, his/ her case to be referred to the HR department.
- c. At (iii) above, but has graduate in Engineering with specialization of Human Resource Management with minimum 65% marks, his/ her case to be referred to the General Manager.

Naveen has completed his graduation in engineering with specialization of Human Resource Management with minimum 66% marks. For the last four years, he has been working as an assistant manager in a reputed organization. He has now secured 55% in the interview and 56% in the written test.

Based on the criteria and the information provided, decide the course of action.

- A. Refer to the HR department
- B. He would be selected
- C. Refer to the General Manager
- D. Refer to the Management

Answer: Option C

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Q21 to Q22. There are five persons in a family A,B,C,D and E. In which, one is working as a doctor; one is a lawyer and one is an engineer. Both A and D are unmarried ladies, who are not working. None of the ladies is working as a doctor and a lawyer in the family. E is the husband of the only one married couple in the family. B is the brother of C and neither a lawyer nor an engineer.

Q21. Who is the lawyer?

- A. B
- B. A
- C. E
- D. D

Answer: Option C

Q22. Who is the doctor in the family?

- A. A
- B. E
- C. D
- D. B

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Answer: Option D

Q23. There are five persons in a family O,P,Q,R and S. They are working as a farmer, a teacher, a lawyer, an engineer and a doctor. P is an unmarried daughter of O and working as a teacher. S is the brother of Q, working as a lawyer. Q is the husband of the only married couple in the family. O is the father of an unmarried daughter and two sons working as a farmer.O's daughter-in-law is a doctor.

Who is an engineer in the family?

- A. S
- B. Q
- C. P
- D. O

Answer: Option A

Q24. A statement is followed by two assumptions numbered I and II. Consider the statement and decide which of the given assumption(s) is/ are implicit in the statement.

Statement

If he is a hard worker, he will succeed in life.

Assumptions

- I. To succeed, he must be a hard worker.
 - II. He will succeed in life.
-
- A. Only I is implicit
 - B. None of I and II are implicit
 - C. Only II is implicit
 - D. Both I and II are implicit

Answer: Option A

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Programming Logic

Q1. Select the best suitable answer for the below functions.

1. sizeof()
 2. strlen
- A. sizeof() - Returns size of string including null characters
strlen() - Returns size of string excluding null characters
- B. sizeof() - Returns size of string including null characters
strlen() - Returns size of string including null characters
- C. sizeof() - Returns size of string excluding null characters
strlen() - Returns size of string excluding null, characters
- D. sizeof() - Returns size of string excluding null characters
strlen() - Returns size of string including null characters

Answer: Option A

Q2. The data modelling phase consists of which of the following?

- A. Creation of evaluation tool
- B. Creation of big data analysis model
- C. Creation of infographics
- D. Creation of the logical data model.

Answer: Option D

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Q3. Which of the following is NOT a logical operator?

- A. !
- B. &&
- C. ||
- D. &

Answer: Option D

Q4. In a Singly Circular Linked List, how many address fields are there?

- A. 1+1
- B. 2+1
- C. 1
- D. 2

Answer: Option C

Q5. What will be the output of the below code?

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```
1 public class Main
2 {
3     int x = 10;
4     public static void main(String [] args)
5     {
6         try
7         {
8             Main t1 = new Main();
9             System.out.println(t1.x);
10        }
11        catch(Exception e)
12        {
13            System.out.println("Exception Caught");
14            return;
15        }
16    }
17    static
18    {
19        int x = 20;
20        System.out.println(x+" ");
21    }
22 }
```

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Enter your answer ONLY as NUMERAL in the box.

Answer:

20

10

Q6. What will be the output of the given program?

```
1 void main()
2 {
3     char a[10][10] = {"kellos", "hellos", "fellos"};
4     printf("%s", a[1]);
5 }
```

- A. Compile time error
- B. ellos hellos fellos
- C. ellos
- D. hellos

Answer: Option D

Q7. When we compose a binary tree through the given preorder sequence, what will be left child of 6? (Note: Consider 4 as root node)

4, 2, 1, 3, 6, 5, 7

- A. 1
- B. 5
- C. 7
- D. 3

Answer: Option B

Q8. What will be the output of the following program?

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```
1 public class Main
2 {
3     public static void main(String[] args)
4     {
5         try
6         {
7             int[] arr = {10,25,2,6,8,9,7,32};
8             for(int i=0; i<arr.length; i++)
9             {
10                 System.out.print(arr[i+1]);
11             }
12         }
13         catch(Exception e)
14         {
15             System.out.println("Inside Exception");
16         }
17     }
18 }
```

Answer: 252689732Inside Exception

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Q9. Based on below infix and postfix expressions, identify the Prefix expression.

Infix expression: $P-Q-(R+S)/(W-X)^*Y+Z$

Postfix Expression: PQRS+*WX-Y*/Z+

- A. $-P/*Q+RS+*-WXYZ$
- B. $-P/*Q+RS+*W-XYZ$
- C. $P-/*Q+R+S*WXYZ-$
- D. $P-/*+RS+Q*-WXYZ-$

All the answer options are wrong.

Correct Answer: $-P-Q+/-RS*-WXYZ$. Best similar answer can be option A

Q10. What will be the output?

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```
1 class car
2 {
3     public void Show()
4     {
5         System.out.println("Brand is not defined yet");
6     }
7 }
8 class mercedes extends car
9 {
10    public void Show()
11    {
12        System.out.println("It's mercedes");
13    }
14 }
15 class Benz extends mercedes
16 {
17 }
18 public class Main
19 {
20     public static void main(String[]args)
21     {
22         car obj=new Benz();
23         obj.Show();
24     }
25 }
```

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- A. It's mercedes
- B. Run Time Error
- C. Compile Time Error
- D. Brand is not defined yet

Answer: Option A

Coding:

Q1. We want to estimate the cost of painting a property. Interior wall painting cost is Rs.18 per square feet and exterior wall painting cost is Rs.12 per square feet. Take input as

- 1. Number of Interior walls
- 2. Number of Exterior walls
- 3. Surface Area of each interior wall in units of square feet
- 4. Surface Area of each exterior wall in units of square feet

If a user enters zero as the number of walls then skip Surface area values as User may don't want to paint that wall. Calculate and display the total cost of painting the property.

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Example 1:

6

3

12.3

15.2

12.3

15.2

12.3

15.2

10.10

10.10

10.00

Total estimated Cost:1847.4 INR

Note: Follow in input and output format as given in above example.

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Solution in C++:

```
1 #include<iostream>
2 using namespace std;
3 int main()
4 {
5     int interior,exterior,interior_cost=18,exterior_cost=12;
6     float face,fcost=0.0;
7     cin>>interior>>exterior;
8     for(int i=0;i<interior;i++)
9     {
10         cin>>face;
11         fcost+=interior_cost*face;
12     }
13     for(int i=0;i<exterior;i++)
14     {
15         cin>>face;
16         fcost+=exterior_cost*face;
17     }
18     printf("Total estimated Cost :%.1f INR",fcost);
19 }
```

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Solution in C:

```
1 #include<stdio.h>
2 int main()
3 {
4     int ni,ne,i=0;
5     float int_p=18,ext_p=12,fcost=0.0,temp;
6     scanf("%d %d",&ni,&ne);
7     for(i=0;i<ni;i++)
8     {
9         scanf("%f",&temp);
10        fcost+= int_p*temp;
11    }
12    for(i=0;i<ne;i++)
13    {
14        scanf("%f",&temp);
15        fcost+= ext_p*temp;
16    }
17    printf("Total estimated Cost : %.1f INR",fcost);
18    return 0;
19 }
```

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Solution in Python:

```
1 def face(s,d):
2     path=[800,600,750,900,1400,1200,1100,1500]
3     stop=['TH','GA','IC','HA','TE','LU','NI','CA']
4     sum=0
5     res=0
6     if(s==d):
7         return "INVALID INPUT"
8     else:
9         s=s.upper()
10        d=d.upper()
11        mini=min(stop.index(s),stop.index(d))
12        maxi=max(stop.index(s),stop.index(d))
13
14        for i in range(mini,maxi+1):
15            sum=sum+path[i]
16
17        res=(sum/1000)*5
18        res=str(res)
19        return res+' INR'
20 s=input()
21 d=input()
22 print(face(s,d))
```

24 October 2020 Slot 2 (1 PM to 4 PM)

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Numerical Ability

Q1. What is the fourth proportional of 0.006, 1.2 & 6/25 ?

- A. 36
- B. 48
- C. 4.8
- D. 3.6

Answer: Option B

Q2. The present ages of three brothers are in the proportion 12:14:17. The difference between the ages of the elder and the eldest is 6 years. What will be the proportion of their ages after four years?

- A. 14:16:19
- B. 40:46:55
- C. 16:18:21
- D. 13:15:18

Answer: Option A

Q3. Two ants of length 1cm and 1.2 cm crawl in opposite directions with average speeds 2 and 1 mm per second respectively. How many seconds will they take to cross each other?

- A. 4.4
- B. 2.8
- C. 0.4
- D. 1.5

Answer: Option A

Q4. The index numbers of five commodities are 121, 123, 125, 126, 128 and the weights assigned to these are respectively 5, 11, 10, 8, 6. Then what is the weighted average index number?

- A. 123.8
- B. 124.2
- C. 124.6

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D. 125.2

Answer: Option C

Q5. Which one among the following has the least value?

- A. $\sqrt{75} - \sqrt{74}$
- B. $\sqrt{74} - \sqrt{73}$
- C. $\sqrt{77} - \sqrt{76}$
- D. $\sqrt{76} - \sqrt{75}$

Answer: Option C

Q6. The Range and the Standard Deviation of a data are R & S respectively. With the shift of origin of the data change(s) occur in the value(s) of:

- A. Both R & S
- B. Neither R nor S
- C. R only
- D. S only

Answer: Option B

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Q7. A sum was lent to X for three years by an organisation who fixed a yearly rate of 10% compound Interest for repayment along with the condition of recovery in equal installments of Rs.31944. What percentage (correct to two decimal places) above the borrowed amount had X to pay the organization?

- A. 18.43
- B. 21.25
- C. 16.52
- D. 20.63

Answer: Option D

Q8. A retailer purchased 25 identical toys for a price Rs P and sold some of them for Rs P. If he calculated his profit as 8%, with selling price as base instead of cost price then how many did he sell?

- A. 24
- B. 20
- C. 21

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D. 23

Answer: Option D

Q9. The Table below presents the percentage marks obtained by three students A, Y, Z in the four components of assessment, A, B, C, D of a paper whose respective weightages are 4, 3, 2, 2, 1.

Students/Marks	A	B	C	D
X	78	85	72	76
Y	65	68	64	73
Z	82	76	81	75

What is the ratio of the average percentage of X in A, B to that of Y, Z combined in C, D?

- A. 324:283
- B. 326:293
- C. 28:25
- D. 81:73

Answer: Option D

Q10. A city water supply tank has two inlet pipes X and Y, which can fill it in 20 and 30 hours respectively, and an outlet pipe Z which can empty a full tank in 40 hours. If the tank is empty and the taps are opened in succession for one hour each, and the process continues, in how many hours will the tank get filled?

- A. $49 \frac{1}{4}$
- B. $51 \frac{3}{7}$
- C. $49 \frac{1}{2}$
- D. $49 \frac{1}{7}$

Answer: Option C

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Q11. A sum of Rs.12500 is invested on 1st January 2016 at 4% simple interest p.a. How much interest in RS. gets accrued on the end of the day on 1st July 2016?

- A. 240
- B. 400
- C. 250
- D. 500

Answer: Option C

Q12. What is the real value of $(0.000314 + 0.000198)^{(1/3)}$?

- A. 0.04
- B. 0.08
- C. 0.8
- D. 0.4

Answer: Option B

Q13. What is the simplified value of $(10/15*6)[22/2/5 \text{ of } [(64-2*8) + 2] - \%]$?

- A. 6
- B. 4
- C. 5
- D. 2

Answer: Option B

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Q14. A man who has to walk 11Km, finds that in 30 minutes he has travelled two-ninth of the remaining distance. What is his speed in Km/h?

- A. 4.8
- B. 4
- C. 4.2
- D. 4.5

Answer: Option B

Q15. Six square plots are connected end to end to obtain a rectangular plot area 726 m^2 . If we take, $\pi=22/7$, by what factor is the perimeter of this plot more than that of the circumference of a circle of radius 10m?

- A. 1.45
- B. 2.45
- C. 2.1
- D. 2.8

Answer: Option B

Q16. The mean and standard deviation of the data which is comprised of a set of ten positive numbers are 8 and 2 respectively. If the sum of squares of time along with ten numbers is 599. What is the tenth number?

- A. 7
- B. 8
- C. 9
- D. 11

Answer: Option C

Q17. With what value should the highest quantity in data 65,52,14,26,18,35,32,38 be replaced so that the mean and median become equal?

- A. 51
- B. 66
- C. 64
- D. 53

Answer: Option D

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Q18. A work is assigned to 6 men and 12 women and they could complete it in 3 days. It was also observed that together they can do 7 times as much work a man and a woman can do. In how many days would 14 women have done the work?

- A. 10
- B. 6
- C. 12
- D. 9

Answer: Option D

Q19. If the HCF of 180 and 432 is expressed as $(180m + 432n)$, where m and n are integers, then what is the difference between m and n?

- A. 3
- B. 7
- C. 9
- D. 8

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Answer: Option B

Q20.If $(x+10)\%$ of 240 is 60% more than $x\%$ of 180, then 15% of $(x+20)$ is what percent less than 25% of x ?

- A. 16
- B. 15
- C. $15 \frac{1}{2}$
- D. $19\frac{1}{21}$

Answer: Option A

Q21. A sales representative 's commission is 6% on all sales upto Rs.15000nand 5% on all sales exceeding this. He remits Rs.47350 to his company after deducting his commission. What were the total sales?

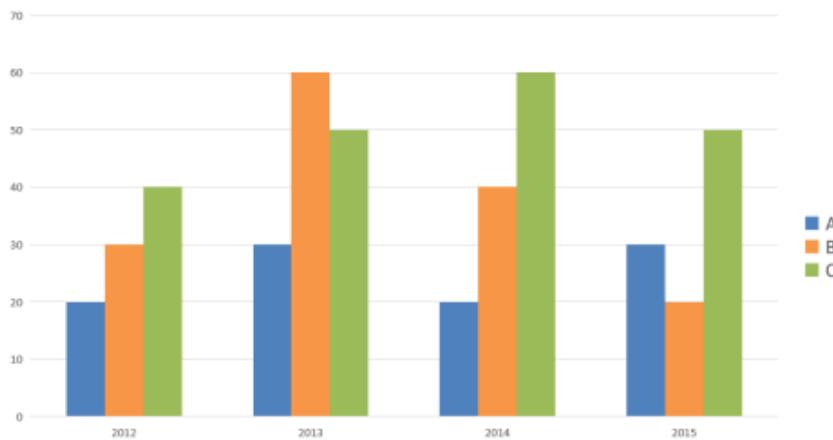
- A. Rs.49000
- B. Rs.47500
- C. Rs.50500
- D. Rs.50000

Answer: Option D

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Q22. The sales (in multiples of hundred) of three brands A, B, C of car from a showroom during four consecutive years, 2012 - 2015 have been presented through the Bar Graph given below.



In which year is the sale of A and B together is 125% of that of C?

- A. 2013
- B. 2014
- C. 2015
- D. 2012

Answer: Option D

Q23. The List Price of an item was kept 40% above what the shopkeeper had paid to the manufacturer. On selling the item a profit of 8.64% was earned after allowing two successive discounts, the first one of which was 20%. What was the percentage of the second discount?

- A. 3.25
- B. 3.6
- C. 3.84
- D. 3

Answer: Option D

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Verbal Ability

Q1. For the four sentence (S1 to S4) paragraph given below, sentences S1 & S4 are given. From the options P,Q and R, choose appropriate sentences for S2 & S3.

S-1: Some of the earliest currencies were objects from nature

S-2:

S-3:

S-4: They were similar in size, small and durable

P. Although they may seem a pretty random choice the shells had a number of advantages

Q. A notable example is cowne shells first used as money about 1200 BCE

R. Counterfeiting dates to the invention of money.

A.QP

B.RQ

C.PQ

D.PR

Answer: Option A

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Q2. As it was his first job, Abhishek threw himself _____ it _____ a lot of enthusiasm.

- A. Into,with
- B. At,with
- C. Across,in
- D. Over,from

Answer: Option A

Q3. Since sunrise to sunset my grandmother would sit by her wheel spinning and reciting prayers.

- A. No error
- B. My grandmother would sit by her wheel
- C. Spinning and reciting prayers
- D. Since sunrise to sunset

Answer: Option D

Q4. For the four sentence (S1 to S4) paragraph given below, sentences S1 & S4 are given. From the options P,Q and R, choose appropriate sentences for S2 & S3.

S-1: Eight months ago, it was business as usual at the cafe.

S-2:

S-3:

S-4: I checked the miniature circuit breaker and realized it had tripped:

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P: Around six in the evening there was fluctuation and the lights went off.

Q: I pulled the miniature circuit breaker switch back and it was fine again.

R: The days were warm and so the air conditioners were in full force.

- A. RP
- B. QR
- C. PQ
- D. RQ

Answer: Option A

Q5. The Candidate _____ certificates the office could not verify were not permitted to appear before the interview board.

- A. Whom
- B. Whose
- C. Who
- D. Which

Answer: Option B

Q6 - Q8 Read the passage given below and answer questions.

It's apparently humankind's fate never to stop writing the history of pandemics. No matter how often they occur—and they do occur with great frequency—we collectively refuse to think about them until circumstances demand it. Then, when the immediate crisis passes, we put it out of our minds as quickly as possible. And so we again are unprepared when the next contagion—in this case, COVID-19—bursts upon us. Richard Conniff traces this alarming cycle in "How devastating pandemics change us," this month's cover story. It examines our long relationship with infectious diseases, from the hard lessons we've been forced to learn to the brave, and often difficult, characters who've risked their lives to save us.

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Smallpox taught us that we could prevent disease through inoculation and, as the 1700s ended, vaccination. By the mid-1800s, cholera's lesson was about sanitation and the need for centralized water and sewer systems. About the same time, one man we've all heard of, Louis Pasteur, and one many of us haven't, Robert Koch, became the co-fathers of germ theory. Tools they created are still used to identify and fight what Conniff calls "an astonishing rogues' gallery of deadly pathogens."

And yet here we are, again, fighting on two fronts: the first, against a new coronavirus sweeping the planet to devastating effect; the second, with each other, over domestic and international politics and whether we're willing to pay the price of prevention.

It's an important question for our planet. While we debate, the next pandemic draws nearer.

Q6. Which statement is CORRECT according to the passage?

- A. Research about vaccines is not reliable
- B. All pandemics are not to be feared
- C. Pandemics keep occurring periodically
- D. There is no solution for a pandemic

Answer: Option C

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Q7. In the fourth paragraph which pandemic is the author referring?

- A. An unknown one
- B. Small pox
- C. COVID-19
- D. Cholera

Answer: Option A

Q8. What does the writer imply that we should do?

- A. Be vigilant about hygiene and health issues.
- B. Wear masks when we step out of our homes.
- C. Wash our hands and everything we touch carefully.
- D. Maintain social distancing and avoid public gatherings.

Answer: Option A

Q9. The part of the sentence below may contain a grammatical error. Identify the part.

A high-end machine was inaugurate at the city's Institute of Medical Sciences which will facilitate 3000 RT PCR tests for Coronavirus in a day.

- A. A high-end machine was inaugurate
- B. at the city's Institute of Medical Sciences
- C. for Coronavirus in a day
- D. which will facilitate 3000 RT-PCR tests.

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Answer: Option A

Q10. Select the most appropriate option to complete the sentence.

It was _____ a new experience for me to attend a Zoom meeting so I planned for it _____.

- A. reasonably, basically
- B. quite, carefully
- C. really, terribly
- D. surely, gently

Answer: Option B

Q11. The following sentence pair can be combined into a single sentence. Choose the sentence that best combines the two sentences without changing the meaning.

Nikhil researched the topic well. He was able to do his Viva Voce well.

- A. Nikhil researched the topic well unless he was able to do his Viva Voce well.
- B. Nikhil was able to do his Viva Voce well despite he researched the topic well.
- C. Nikhil researched the topic well therefore he was able to do his Viva Voce well.
- D. Nikhil was able to do his Viva Voce well although he researched the topic well.

Answer: Option C

Q12. Which one of the following sentences uses formal language?

- A. This presentation takes the cake!
- B. Shall we put this on our agenda for the next client week?
- C. I apologize for the technical glitch that occurred during our webinar yesterday.
- D. I'm disappointed with the sales figures, they need to look up!

Answer: Option C

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Reasoning Ability

Q1. Among 5 objects P,Q,R,S and T

- i. R is twice as heavy as T
- ii. S is one and half times as heavy as Q
- iii. Q and R together weigh as much as S and T together
- iv. P and S together are one and half time as heavy as Q and T together

Which among the five is the heaviest of all?

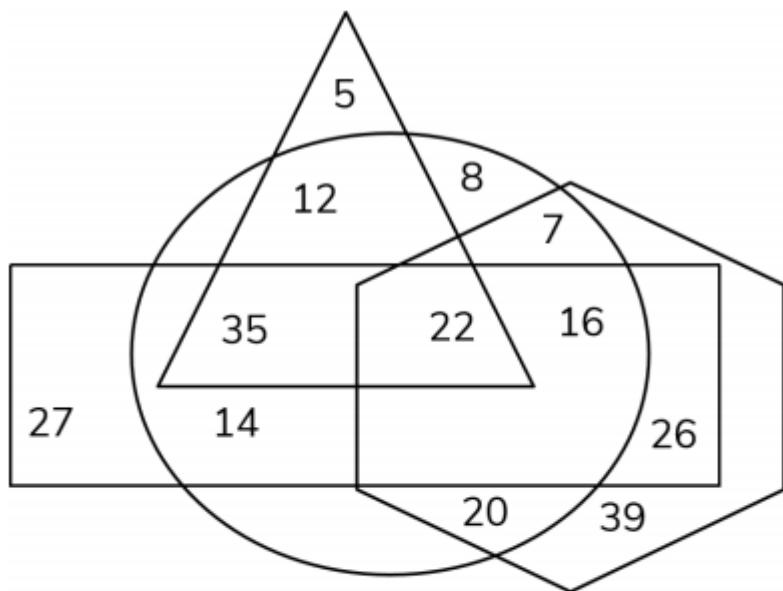
- A. Q
- B. S
- C. P
- D. R

Answer: Option B

Q2. In the following diagram, the triangle stands for 'males', the circle for 'doctors', the rectangle for 'government employed', the hexagon for 'corona warriors'. The numbers in different segments show the number of persons for that segment. How many government employed doctors are either corona warriors or males or both?

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- A. 22
- B. 73
- C. 35
- D. 38

Answer: Option B

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Q3. A statement followed by two assumptions numbered I and II. Consider the statement and decide which of the given assumptions is implicit in the statement.

Statement:

Even though enough support is provided for potato production and its storage in cold stores, the state will continue to import from other countries

Assumptions:

- i. In Spite of the support the potato production and storage will not be able to meet the potatoes by the people in the store.
- ii. The state is aware that the demand for potatoes by the consumers would rise substantially in the near future.
 - A. Only ii is implicit
 - B. Both i and ii are implicit
 - C. Neither i nor ii is implicit
 - D. Only i is implicit

Answer: Option B

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Q4. In a certain code, M + N means M is the son of N, M X N means M is the brother of N; M ÷ N means M is the husband of N and M - N means M is the sister of N.

If T - P + Q X R ÷ S, then which of the following is true?

- A. P is the son of S
- B. Q is the uncle of T
- C. S is the sister of Q
- D. S is the aunt of T

Answer: Option D

Q5. A team of four players are to be selected from among four girls A,B,C,D and four boys P,Q,R,S such that there would be at least two girls in the team and the team selection should meet the following conditions

- i.B cannot go with R
 - ii.D and P must go together
 - iii.S cannot be put up with A
 - iv. R and C must be together
- A. QBSC
 - B. DAPQ
 - C. RCQS
 - D. BPRA

Answer: Option B

Q6. Each of the five students, P,Q,R,S and T studies two subjects from the given subjects named History, Mathematics, English, Sanskrit, and Science. Each subject is studied by two students

- i.P studies Mathematics and Sanskrit
- ii.R studies History and Mathematics
- iii.S and T both study English
- iv.Q does not study science

Who from the given option studies science?

- A. P
- B. Q
- C. R
- D. S

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Answer: Option D

Q7. A statement is followed by three assumptions numbered I, II and III. Consider the statement and decide which of the given assumption(s) is/are implicit in the statement.

Statement:

Punishment of students in any form by teachers is banned in all schools to preserve the self-confidences of students.

Assumptions:

- I. Punishment in a mild form is not a cognizable offence in out-of-school as it is a method for disciplining children.
- II. Teachers taking recourse to punishing children will be held accountable for their actions.
- III. Punishment might induce fear, negatively affecting students' level of confidence and learning
 - A. Only III is implicit
 - B. Only I and II are implicit
 - C. Only II is implicit
 - D. Only II and II are implicit

Answer: Option A

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Q8. 1600 employees are working in a company in four departments: Accounts, HR, Production and Sales, 20% of the employees are in Accounts with a male-female ratio of 5:3. 640 are working in Production where the number of males is twice the number of females of the Accounts Department. The number of HR employees is half the number of employees in the Accounts department and 60 of them are females. The number of male employee in the Sales department is same as that of the Production department.

How many female employees are working in the company?

- A. 600
- B. 540
- C. 400
- D. 500

Answer: Option D

Q9. Given below is a question followed by two statements, I and II, each containing some information. Decide which of the statement(s) is/are sufficient to answer the question.

How is Sheela exactly related to Ramesh?

Statements:

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- I. Mary's brother Vikash is married to Sheela and Ramesh's mother is the sister of Mary.
 - II. Sheela is the sister of Vikash and Vikash's only child is the cousin brother of Ramesh.
- A. Both the statements I and II are necessary
 - B. Both the statements I and II together are not sufficient
 - C. Statement II alone is sufficient
 - D. Statement I alone is sufficient

Answer: Option D

Programming Logic:

Q1. Which argument is passed to fflush()?

- A.no parameters
- B.stdin
- C.stdout
- D.stderr

Answer: Option B

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Q2. What will be the output for the below? Enter your answer only as Numeral

```
public Class Main
{
    public static void main(string[])
    {
        int x=1/2;
        if(x==0.5)
            System.out.println(x+1);
        else
            System.out.println(x*2);
    }
}
```

Answer: 0

Q3. What is the name of the method that examines a particular data entity and determines what data elements need to be associated?

- A. Entity relationship diagram
- B. Logic Data modeling
- C. Customer Entities
- D. Functional Primitive

Answer: Option A

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Q4. What will be the output of the below code?

```
public class Main
{
    static int num=30;
    static class inner
    {
        void msg()
        {
            System.out.Println('Num: num++');
        }
    }
    public static void main(string args[])
    {
        Main.Inner tw=new Main.Inner();
        tw.msg();
    }
}
```

Answer: 30

Q5. Select the correct code for opening a file for writing in binary mode

- A. File*f =fwriteb("abc.bin")
- B. File*f = fopen("abc.bin","bw")
- C. File*f = fopen("abc.bin","wb")
- D. File*f = fwrite("abc.bin","b")

Answer: Option C

Q6. What will be the output of the below code?

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```
import java.util.ArrayList;
import java.util.Collections;
import java.util.Iterator;
class MainClass
{
    public void sort()
    {
        ArrayList<String> arrayList= new ArrayList<String>();
        arrayList.add("mango");
        arrayList.add("grapes");
        Iterator iterator = arrayList.iterator();
        while(iterator.hasNext())
        {
            System.out.print(iterator.next() + " ");
        }
        Collections.sort(arrayList);
    }
}
public class Main
{
    public static void main(String[] args)
    {
        MainClass mainclass = new MainClass();
        mainclass.sort();
    }
}
```

- A. mango grapes
- B. Compilation error
- C. Collection.sort() throws Concurrent Modification Exception
- D. Grapes mango

Answer: Option A

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Q7. What is the name of the method that examines a particular data entity and determines what data elements need to be associated with it?

- A. Customer Entities
- B. Entity Relationship Diagram
- C. Logic Data Modelling
- D. Functional Primitive

Answer: Option B

Q8. We cannot overload _____ operator.

- A. ::
- B. []
- C. ()
- D. +

Answer: Option A

Q9. Which of the following functions is used to accept strings with white spaces?

- A.getWhiteSpaceString();
- B.scnf();
- C.gets();
- D.getstrings();

Answer: Option C

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Q10. Which data structure is used to convert expression from one form to another form?

- A. Graph
- B. Stack
- C. LinkedList
- D. Queue

Answer: Option B

Q11. What is the mathematical function used to round off 6.23 to 7?

- A. floor(6.23)
- B. ceil(6.23,7)
- C. floor(6.23,7)
- D. ceil(6.23)

Answer: Option D

Q12. Which combination of the integer variables a, b and c makes the variable m get the value 4 in the following expression?

$$m = (a > b) ? ((a > c) ? a : c) : ((b > c) ? b : c)$$

- A. a=6, b=3, c=5
- B. a=6, b=5, c=3
- C. a=5, b=4, c=5
- D. a=3, b=4, c=2

Answer: Option D

Q13. Which of the following options best suits for 'Memory Leak Occurred'

- A. Resource allocation pending while debugging the code
- B. Program releases resources allocated in the memory
- C. Program does not free the memory which is allocated dynamically
- D. Occurs due to address assignment failure.

Answer- Option C

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Coding:

Q1. WASHING MACHINE

A Washing Machine works on the principle of a Fuzzy system, the weight of clothes put inside it for wash is uncertain. But based on weight measured by sensors, it decides time and water levels which can be changed by menus given on the machine control area. For low Water level, time estimate is 25 minutes, where approximate weight is 2000 grams or any non-zero positive number below that.

For Medium Water level, time estimated is 35minutes, where approximate weight is between 2001 grams and 4000 grams.

For High Water level, time estimated is 45 Minutes, where approximate weight is above 4000 grams.

Assume the Capacity of the Machine is maximum 7000 grams.

Where the approximate weight is zero, the time estimate is 0 minutes. Write a function which takes numeric weight in the range [0,7000] as input and produces estimated time as output; if input is more than 7000, then output is: "OVERLOADED!", and for all other inputs, the output statement is "INVALID INPUT".

Input should be in the form of integer value -

<Integer>

Output must have the following format -

TimeEstimated: <Integer> Minutes

Example 1

Input Value

2000

Output Value

Time Estimated: 25 Minutes

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```
1 #include<iostream>
2 using namespace std;
3 int main()
4 {
5     int weight;
6     cin >> weight;
7     if(weight < 0)
8         cout << "INVALID INPUT";
9     else if(weight == 0)
10        cout<<"Time Estimated : 0 Minutes";
11    else if(weight > 0 && weight <= 2000)
12        cout << "Time Estimated : 25 Minutes";
13    else if(weight >= 2001 && weight <= 4000)
14        cout << "Time Estimated : 35 Minutes";
15    else if(weight >= 4001 && weight <= 7000)
16        cout << "Time Estimated : 45 Minutes";
17    else
18        cout << "OVERLOADED!";
19    return 0;
20 }
```

Q2. Caesar Cipher

The Caesar cipher is a type of substitution cipher in which each alphabet in the plaintext or message is shifted by a number of places down the alphabet.

For example, with a shift of 1, P would be replaced by Q, Q would become R, and so on.

To pass an encrypted message from one person to another, it is first necessary that both parties have the 'key' for the cipher, so that the sender may encrypt it and the receiver may decrypt it.

the key is the number of OFFSETs to shift the cipher alphabet. Key can have basic shifts from 1 to 25 positions as there are 26 total alphabets.

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As we are designing custom Caesar Cipher, in addition to alphabets, we are considering numeric digits from 0 to 9. Digits can also be shifted by key places.

For example, if given plain text contains any digit with value 5 and key = 2, then 5 will be replaced by 7. “-” (Minus sign) will remain as it is. Key value less than 0 should result into “INVALID INPUT”

Example 1:

Input:

Enter your PlainText: All the Best

Enter the Key: 1

Output:

The encrypted Text is: Bmm uif Cftu

Write a function `customCaesarCipher(int key, String message)` which will accept plaintext and key as input parameters and returns its cipher text as output.

```
1 #include<stdio.h>
2 void customCaesarCipher(int key,char str[]);
3 int main()
4 {
5     int key;
6     char str[100];
7     scanf("%[^\\n]s",str);
8     scanf("%d",&key);
9     customCaesarCipher(key,str);
10    return 0;
11 }
```

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```
12 void customCaesarCipher(int key,char str[])
13 {
14     int n=0,i=0;
15     for(n=0;str[n]!='\0';n++);
16     if(key<0){
17         printf("INVALID INPUT");
18         return;
19     }
20     else{
21         for(i=0;i<n;i++){
22             if(str[i]!=' '){
23                 if(str[i]>=65 && str[i]<=90){
24                     if((int)(str[i]+key)<=90)
25                         str[i] = (int) (str[i]+key);
26                     else
27                         str[i] = (int)(str[i]+key-90+65-1);
28                 }
29                 else if(str[i]>=97 && str[i]<=122){
30                     if((int)(str[i]+key)<=122)
31                         str[i] = (int) (str[i]+key);
32                     else
33                         str[i] = (int)(str[i]+key-122+97-1)
34                 }
35                 else if((str[i]>=48 && str[i]<=57)){
36                     if((int)(str[i]+key)<=57)
37                         str[i] = (int)(str[i]+key);
38                     else
39                         str[i] = (int)(str[i]+key-57+48-1)
40                 }
41             }
42         }
43         printf("%s",str);
44     }
45 }
```

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24 October 2020 Slot 1 (8 AM to 11 AM)

Q1. A man has to travel 50 km in two hours. He could cover 20 km in one hour, and then had to stop for 10 minutes for refueling. By what factor should be increase his speed with reference to that during the first hour so as to be able to complete the journey as per schedule?

- A. 1.2
- B. 1.8
- C. 2.4
- D. 1.5

Answer: Option B

Q2. If n is an integer such that 1nn352 is a six-digit number exactly divisible by 24, what will be the sum of the possible values of n?

- A. 15
- B. 27
- C. 9
- D. 21

Answer: Option A

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Q3. The diameter of a pizza is 30 cm. What is the area (in square cm) of the upper surface of a sector of the pizza whose arc length is 8 cm?

- A. $120 * \pi$
- B. 60
- C. $60 * \pi$
- D. 120

Answer: Option B

Q4. What is the mean proportional (MP) between the MPs of $(2/7 & 32/343)$ and $(2 & 1/5000)$?

- A. $3/35$
- B. $4/35$
- C. $2/35$
- D. $2/175$

Answer: Option C

Q5. If $(x+10)\%$ of 240 is 60% more than $x\%$ of 180, then 15% of $(x+20)$ is what percent less than 25% of x ?

- A. 16
- B. 15
- C. $15 \frac{1}{2}$
- D. $19 \frac{1}{21}$

Answer: Option A

Q6. A sum of Rs.30000 invested in a scheme where the interest gets compounded annually and grows to Rs. 51840 in three years. How much interest (in Rs.) would have got accrued in six months in the same scheme had the interest been compounded quarterly?

- A. 3024
- B. 3075
- C. 3126
- D. 2975

Answer: Option B

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Q7. How much percentage is (0.025% of 240% of 1.5) of 0.9?

- A. 0.01
- B. 10
- C. 0.1
- D. 1

Answer: Option C

Q8. If the positive square root of $((90^{0.5})+(80^{0.5}))$ is multiplied by $(2^{0.5} - 1)$, and the product is raised to the power of four, the result would be:

- A. 1600
- B. 11520000
- C. 100
- D. 10

Answer: Option D

Q9. What is the mean deviation of the data: 8,9,12,15,16,20,24,30,32,34?

- A. 8
- B. 10.2
- C. 0
- D. 9.2

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Answer: Option A

Q10. An item was sold at a profit of 12% after giving a discount of 12.5% on the List Price. What would be the gain or loss percentage if a discount of 25% is given on the List Price?

- A. 2.5% loss
- B. 2.5% gain
- C. 4% gain
- D. 4% loss

Answer: Option D

Q11. What is the diameter in cm of a solid right circular cylinder whose height is 6 cm and the area of the curved surface is five times the combined area of the two flat surfaces?

- A. 3
- B. 2.4
- C. 1.2
- D. 0.9

Answer: Option B

Q12. The Variation in temperature throughout the day in a desert town was studied on the basis of the records of the maximum and minimum temperatures which was 36 and 8 degree centigrade respectively. What was the standard deviation in degree centigrade?

- A. 28
- B. 22
- C. 14
- D. 12

Answer: Option A

Q13. The Collection of numbers which comprise the data given below is arranged in ascending order. (3,7,9,N - 1,15,18,19,20). If the median of the data is 12.5, what is the value of N?

- A. 11
- B. 12
- C. 11.5
- D. 10.5

Answer: Option A

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Q14. A file of cadets consisting of ten rows and five columns measures 420m in length along the direction of their marching. How much time(in hours and minutes) would it take to march for a stretch of 3 km, if the stride of the each cadet is 80cm and he takes 57 strides per minute?

- A. 1 hr 15 min
- B. 1 hr 24 min
- C. 1hr 10 min
- D. 1 hr 20 min

Answer: Option A

Q15. 96 men were engaged for a project of constructing a railway track of the length of 18km in four weeks. After one week it was observed that the work of 4km was completed. How many additional men should be engaged for timely completion of the project?

- A. 12
- B. 16
- C. 14
- D. 15

Answer: Option B

Q16. X is four times as efficient as Y in respect of doing a particular work. Working together they complete the work in 16 days. In how many days Y, working alone, will be able to do half the work?

- A.40
- B.80
- C.60
- D.20

Answer: Option A

Q17. In a competitive exam, 5 marks are awarded for every correct answer and for every wrong answer, 2 marks are deducted. Sathwik got 32 marks in this examination. If 4 marks has been awarded for each correct answer and 1 mark had been deducted for each incorrect answer, Sathwik would have scored 34 marks. If Sathwik attempted all the questions, how many questions were there in the test?

- A. 20
- B. 14
- C. 12
- D. 26

Answer: Option D

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Q18. A sum invested on simple interest grows to Rs 22500 and Rs 25500 in seven and nine years respectively. What is the rate percentage of the interest?

- A. 7.5
- B. 9.6
- C. 13.5
- D. 12.5

Answer: Option D

Q19. What is the sum (in Rs) which, when divided among X, Y, Z in the proportion 3 : 5 : 7 provided Rs. 8000 more to Z than what it would have done to him when the proportion is 11 : 15 : 19?

- A. 120000
- B. 180000
- C. 135000
- D. 175000

Answer: Option B

Q20. What is the value of $(0.0000128)^{1/7}$?

- A. 0.2
- B. 5
- C. 2
- D. 0.5

Answer: Option B

Q21. After purchasing two copies of the same book, X sold them respectively at 0.8 and 1.4 times their cost prices. What was the percentage gain earned or loss incurred by X?

- A. 5% gain
- B. 10% gain
- C. 5% loss
- D. 10% loss

Answer: Option B

Q22. Two vessels X and Y of capacities one and two litres respectively are completely filled with mixtures of two chemicals A and B. The ratio by volume of the chemicals A and B in X and Y are 3:2 and 4:5 respectively. The contents of A and B are mixed and the combination is kept in a vessel C of capacity of four litres. How many litres of Chemical A should be added to the combination so as to make the ratio of A to B equal to 1:1?

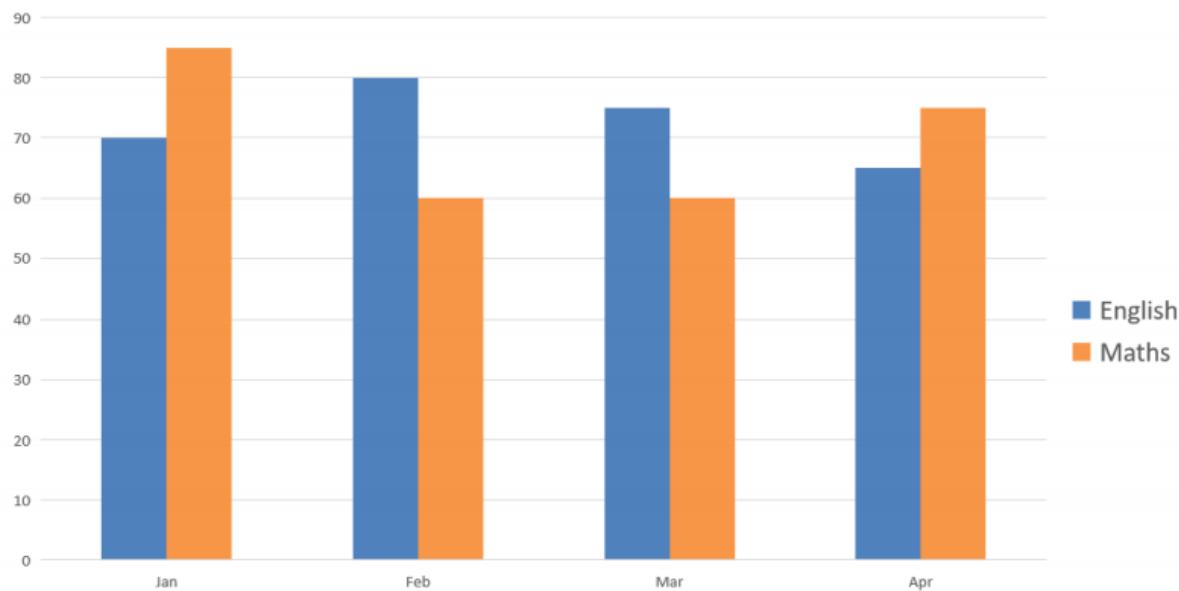
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- A. $1/135$
- B. $1/67$
- C. $1/68$
- D. $1/270$

Answer: Option C

Q23. The marks scored by a student out of 100 in English and Mathematics at four consecutive monthly tests held in 2019 are presented through a Bar Graph shown below. In each case the marks is a multiple of five.



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In which month is the difference of marks scored in the two subjects are highest?

- A. Apr
- B. Mar
- C. Feb
- D. Jan

Answer: Option C

Q24. The mean of set data is 5.What will be the mean if 10 is subtracted from each data.

- A. 5
- B. 10
- C. -5
- D. -15

Answer: Option C

Q25. If $5^X \cdot 3^Y = 225 \times 405$, find the value of X^{2Y-3X}

- A. 81
- B. 27
- C. 125
- D. 25

Answer: Option B

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Verbal Ability

Q1s to 2: Read the Passage given below and answer questions

It used to be the American shopper that exemplified the state of the world economy. The focus now should be on the person on the other side of the till. America's retail industry is huge: it employs 15.9 Mn workers, who represent one in nine American jobs. It is also undergoing wrenching change, as e-commerce eats into sales. There is no more pressing test of society's ability to cope with technology's impact on work.

That impact is already visible. For all the benefits that online retailing brings to consumers, it is causing immense pain to offline rivals. Last year 4,000 American stores closed; this year more than twice that number may shutter. Standard & Poor's, a rating agency, expects retail defaults this year to outnumber those in 2009, at the height of the global recession. Some formats—discount stores, groceries, high-end malls—will continue to thrive. But many will shrink. The industry has shed 50,000 net jobs since January. Department stores may need to close more than 800 stores to reach the productivity levels of 2006. Many outlets are looking for ways to cut labour costs by embracing automation.

Q1. This passage is mainly about _____

- A. Those who regularly do their shipping online.
- B. Those who run large businesses and retail stores.
- C. Those who run smaller retail shops.
- D. Those who cannot afford to buy anything in large retail shops.

Answer: Option C

Q2. What is the significant measure that stores are trying to adopt?

- A. Diversifying
- B. Shutdown business

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- C. Merging
- D. Automation

Answer: Option D

Q3. Governments have been promising the eradication of child labour in high risk Industries in India for many years. However almost 100 million children are still at work instead of going to school, and around 10 million are working in (1) _____ Industries. India has the biggest child population of 380million in the world; plus the (2) _____ number of children who are forced to earn a living.

Blank 1. A) honorary B)hazardous C)handicraft D)hardware

Blank 2. A)largest B) lowest C)latest D)loudest

- 1 - D, 2 - C
- 1 - B, 2 - A
- 1 - A, 2 - D
- 1 - C, 2 - B

Answer: 1 - B, 2 - A

Q4. For the four sentence (S1 to S4) paragraph given below, sentences S1 & S4 are given. From the options P,Q and R, choose appropriate sentences for S2 & S3.

S-1: Once upon a time an ambassador came to see the king of Sparta on some official business
S-2:
S-3:
S-4:But he found nothing of that kind

P.The ambassador knew that the king of sparta was also really the ruler of entire Greece and so he expected to see massive walls around the city for purpose of defence

Q:You are looking at the walls____ ten thousand men, and every man is a brick

R.After their work was over the king took his visitor on a sight-seeing tour of the capital city

- A.RP
- B.RQ
- C.QP
- D.PQ

Answer: Option D

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Qs 5 to 9: Read the passage given below and answer questions

Twinkling lights are just visible behind screens where staff are putting the finishing touches to this year's Christmas displays, but in other parts of the shop, the lights are still off. John Lewis's flagship store in Oxford Street, central London, is bearing the scars of the pandemic.

A restaurant and cafe are closed and there are more staff than customers on the furnishings floor. The fashion floor is also a depressing sight, with tags flagging big discounts on racks of unwanted dresses and office wear. Last week it emerged John Lewis had applied for planning permission to convert entire floors of this shop into office space. It's not hard to see why.

John Lewis, with its employee ownership and reputation for stellar customer service, still holds a special place in shoppers' hearts. But while sister chain Waitrose, along with other supermarkets, has thrived in the pandemic, results published last week show the department store chain is in deep trouble. Huge changes in shopper behaviour, which have been accelerated by coronavirus, mean the John Lewis website is now responsible for 60% of the chain's sales – up from 30% pre-Covid. This tilt towards the web means the department stores, as properties, are now deemed to be worth nearly £500 Mn less than before – a reassessment in last week's results that sent the group crashing £635 Mn into the red in the first half of its financial year.

Q5. Which one of the following is NOT a scar of the pandemic?

- A. More floors converted to office space
- B. Putting finishing touches to festive decorations
- C. Lights off in parts of the shop
- D. Fewer customers and more staff

Answer: Option B

Q6. Which business will NOT continue to prosper?

- A. Department stores
- B. Discount stores
- C. High-end Malls
- D. Grocery Stores

Answer: Option A

Q7. What unpleasant announcement will the chairman have to make to the employees?

- A. That they will have a pay cut
- B. That they will not get their annual bonus
- C. That they will not get their salaries
- D. That they will lose their jobs

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Answer: Option B

Q8. How do we know that John Lewis had been in prosperous business prior to the COVID pandemic?

- A. Their website now handles 60% of their business
- B. They paid an annual bonus for sixty-seven years
- C. They have a new Lady Chairman
- D. They were known for their customer services

Answer: Option B

Q9. Which one of the following expressions from the passage means losing money?

- A. Tilt towards
- B. On racks
- C. Sent crashing
- D. In the red

Answer: Option D

Q10. Aisha had been very successful managing her team in Edinburgh and was asked by the company to lead a remote team for an important two-year project. Keen to demonstrate her leadership abilities to the head office, Aisha got her team members together for a remote meeting. But right from that first meeting, she realised that this was going to be a different challenge. (1)_____ Lucia kept asking about really specific details, while Aisha was hoping to use the meeting to get to know the team members and identify priorities. Archie and Lucia kept accidentally talking at the same time, and when they didn't speak, there was an uncomfortable silence. Valentina hardly said a word. (2)_____ Without these visual clues, Aisha had no idea whether people were interested, lost, confused or bored.

- A. No one had their cameras on, so there was none of the usual communication through body language or facial expressions
- B. Compared to face to face meeting the remote team is not preferred by all the managers
- C. For a start, Archie was late for the meeting by about 15 minutes because of 'technical problems'.

- 1 - A, 2- C
- 1- B, 2- A
- 1- A, 2- B
- 1- C, 2-A

Answer: 1- C, 2-A

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Q11. Fill in the blanks with the most appropriate set of words from the options given below:

What did the painter do ----- himself from falling?

When he felt the ladder ----- he grabbed the gutter to save himself from falling

- A. to save/ beginning to slip
- B. to savel begin to slip
- C. for saving/ began to slip
- D. to save/ began slipping

Answer: Option A

Q12. One part of the sentence below may contain may error. Identify the part. If there is no error, choose 'No error'. Everyday life have become more complicated with the advancement in mobile technology.

- A. More complicated with the
- B. Everyday life have become
- C. No error
- D. Advancement in mobile technology

Answer: Option B

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Q13. For the four sentence (S1 to S4) paragraph given below, sentences S1 & S4 are given. From the options P,Q and R, choose appropriate sentences for S2 & S3.

S-1. Gandhi does not reject machinery as such.

S-2.

S-3.

S-4. What he objects to is the craze for machinery, not machinery as such

P. He says that today, machinery merely helps a few to ride on the back of millions.

Q. And adds that the spinning wheel is a machinery, a little tooth-pick is a machine.

R. He observes, "How can I be against machinery when I know that even this body is a most delicate piece of machinery?"

- A. PQ
- B. RQ
- C. QP
- D. QR

Answer: Option B

Q14. The following three sentences can be revised into one better sentence. Choose the sentence that is the best revision:

I was at the fair. I got lost. I got scared.

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- A. I am scared after I am lost at the fair.
- B. I went to fair and got scared as I was lost.
- C. I am lost at the fair so I am too scared.
- D. I got lost at the fair and was scared.

Answer: Option D

Q15. Which of the following sentences does NOT use informal language?

- A. Did you locate our office quite easily?
- B. You will be working with different managers during your training.
- C. We shall endeavour to inform you of the position in two weeks time.
- D. Is there anything else you want to ask me?

Answer: Option B

Q16. The lady _____ purse was lost lodged a complaint at the police station.

- A. Who
- B. Whose
- C. Whom
- D. Where

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Answer: Option B

Q17. You are going to read a text about a man in a photograph. Some sentences are missing from the text. Choose from the list (A-C) the most appropriate sentence for each gap (1-2) in the text. There is one extra sentence that you do not need to use.

It was the first photograph that I had ever seen, and it fascinated me. I still remember holding it at every angle in order to catch the flickering light from the oil lamp on the dresser. (1) _____ I had never met him but I felt that I knew him. (2) _____ I moved the photograph so that the shadow lay perfectly around his hollow cheeks. How different he looked!

- A. The man in the photograph was unsmiling, but his eyes were kind.
- B. I would tell him how wonderful he looked with the shadow that I had seen across his photograph, and I would most carefully suggest that he grew whiskers.
- C. One evening when I was looking at the photograph, as I always did before I went to sleep, I noticed a shadow across the man's thin face.

- A. (1)-A, (2)-C
- B. (1)-B, (2)-A
- C. (1)-C, (2)-B
- D. (1)-C, (2)-A

Answer: (1)-A, (2)-C

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Q18. Henry looks carefully into the telescope which let him see far,far away, as far away as the distant nebulae on the fair edges of the milky way.Henry is an (1)_____.He looks at the sky and at stars in particular.Even though he spends much of his time looking at detailed computer reports,which are just lists and the lists are numbers, his (2)_____ thing about his job is looking through the telescope.And today he is very excited. He isn't sure yet, but he thinks he has seen a dense cloud which might be the beginning of a new star.

Blank 1. A.astrologer B.astrologist C.astronomer D. astronaut

Blank 2. A. favouring B. pleasant C.pleasing D.favourite

1-C,2-D

1-D,2-B

1-A,2-A

1-B,2-C

Answer: 1-C,2-D

Q19. One part of the sentence below may contain an error. Identify the part.If there is no error,choose 'No error'.

The board announced that the decision to reduce the syllabus is yet to be approved by the competent authority.

- A. Is yet to be approved by the competent authority
- B. No error
- C. The decision is to reduce the syllabus
- D. The board announced that

Answer: Option B

Q20.The final report on the project was _____into three parts

- A. Broken up
- B. Broken off
- C. Broken away
- D. Broken out

Answer: Option A

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Reasoning Ability

Q1. In each of the five pairs of the letter-clusters, the letters in the second term is a rearranged/transformed form of the letters in the first term in a particular pattern. In which two pairs has the transformation been done the same way?

- 1) MASON : AMNOS
- 2) PARTY : APRYT
- 3) FAULT : AFTLU
- 4) LODGE : DOLEG
- 5) CARGO : ACOGS

- A. 2) and 3)
- B. 3) and 4)
- C. 1) and 3)
- D. 4) and 5)

Answer: Option C

Q2. There are five rods K, L, M, N and O. The weight of L is equal to the weights of K and M taken together. The weight of M is twice the weight of K. The weight of N is three times the weight of M. If the weight of N is 90 kg, what will be the weight of O?

- A. 120 kg
- B. 60 kg
- C. 105 kg
- D. 90 kg

Answer: Option C

Q3. The following are the criteria of selecting a Software Engineer for an IT company.

The candidates must:

- a. Have completed BCA with more than 70% marks
- b. Be more than 25 years and less than 30 years of age as on June 1, 2020
- c. Have secured more than 75% marks in the interview and more than 60% marks in the written test.

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However, if the candidate fulfills all of the above criteria except:

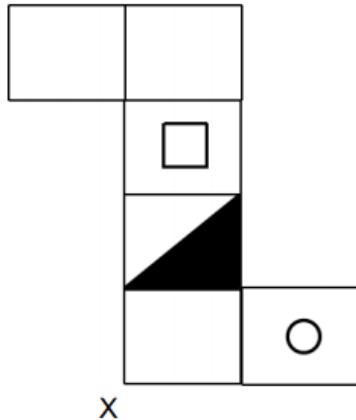
- d. At b, but has completed MCA with at least 75% marks, his/her case is to be referred to the Managing Director.
- e. At c, but has secured more than 85% marks in BCA, his/ her case is to be referred to the Chief Executive Officer.

Keith completed BCA and MCA with 76% and 72% marks respectively. He has completed 27 years of age in the year 2019. He has secured 65% marks in the written test and 78% marks in the interview. What decision would be taken in his case?

- A. His case is to be referred to the Managing Director
- B. He would not be selected
- C. His case is to be referred to the Chief Executive Officer.
- D. He would be selected.

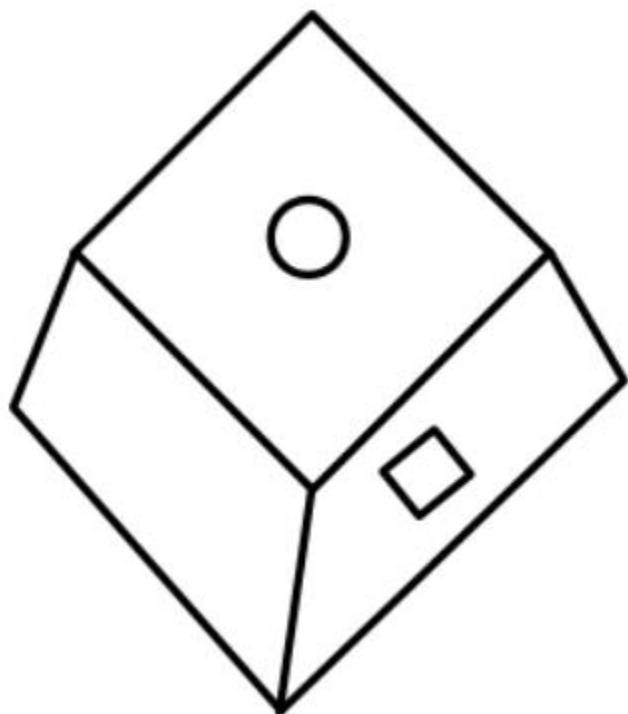
Answer: Option D

Q4. The figure marked 'X' is folded to form a box. Four possible boxes A, B, C and D are given below some of which can be formed and some cannot be formed. Choose from the alternatives the boxes that can be formed.

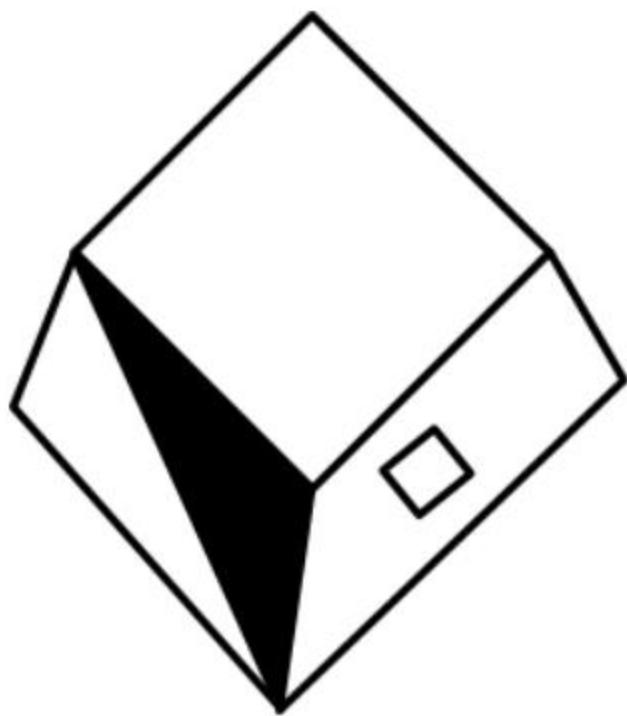


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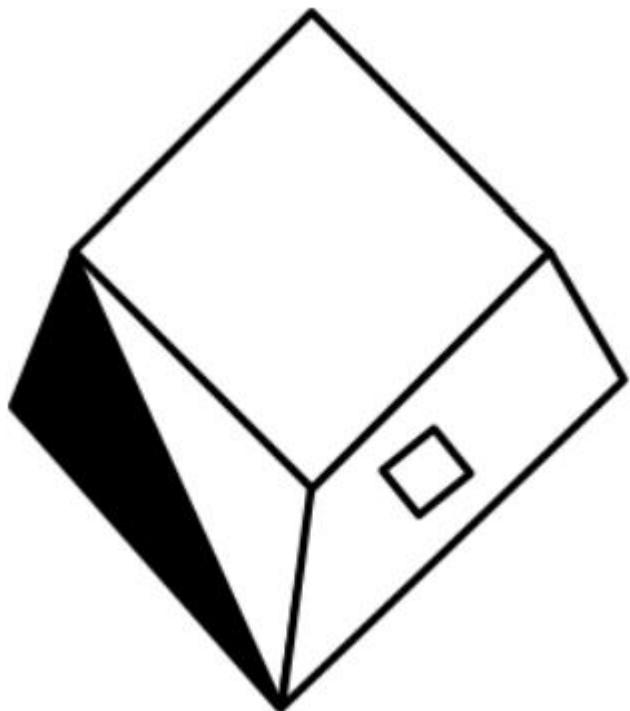
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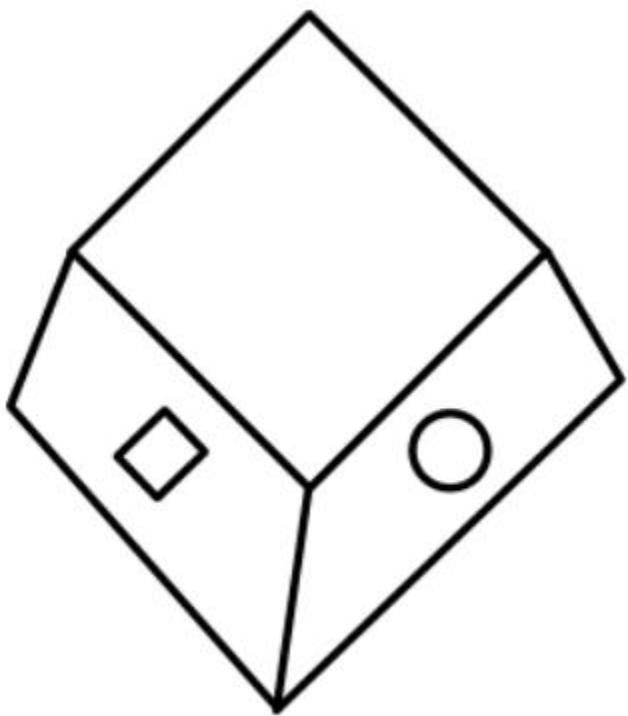
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- A. 1, 3 and 4 only
- B. 2 and 3 only
- C. 1 and 2 only
- D. 2 and 4 only

Answer: Option A

Q5. Four friends A, B, C and D have one of the four professions i.e. Doctor, Architect, Engineer and Lawyer. Each friend belongs to one of the four different cities Chandigarh, Indore, Lucknow and Pune. A is not a lawyer or engineer. The doctor is from Lucknow. D is an architect. The lawyer is from Pune. The engineer is neither from Chandigarh nor from Pune. D is not from Pune, C is not from Indore. Which of the following statements is true about B?

- A. B is a lawyer and belongs to Pune
- B. B is a doctor and belongs to Pune
- C. B is a lawyer and belongs to Chandigarh
- D. B is a doctor and belongs to Chandigarh

Answer: Option A

Q6. Which is the wrong term in the following series?

CMQ, FPT, JTX, OYC, UFI

- A. FPT
- B. OYC

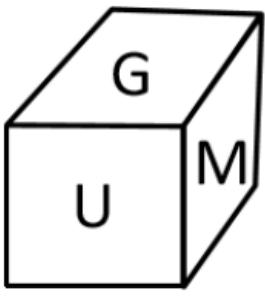
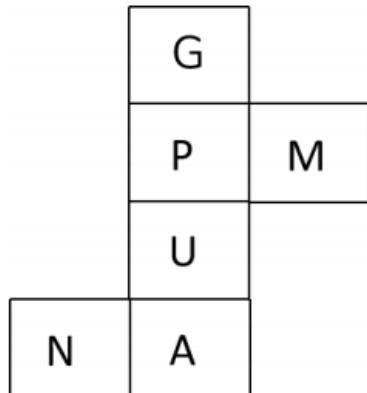
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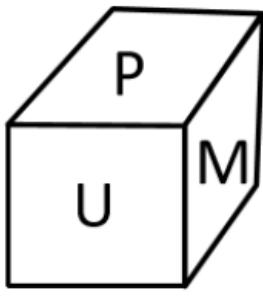
- C. JTX
- D. UFI

Answer: Option D

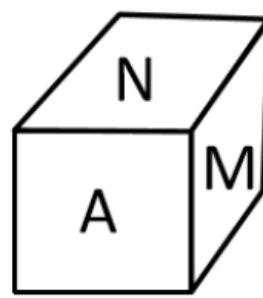
Q7. Which of the following patterns of the boxes can be formed when the sheet given below is folded? (if the letters are shown to indicate the sides only).



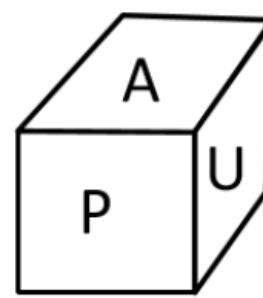
1



2



3



4

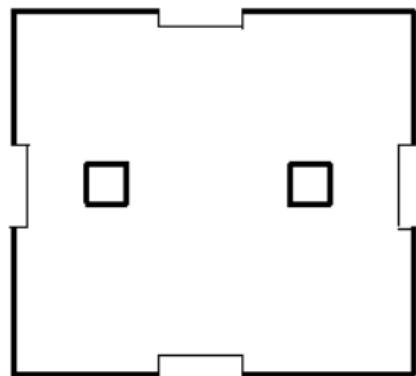
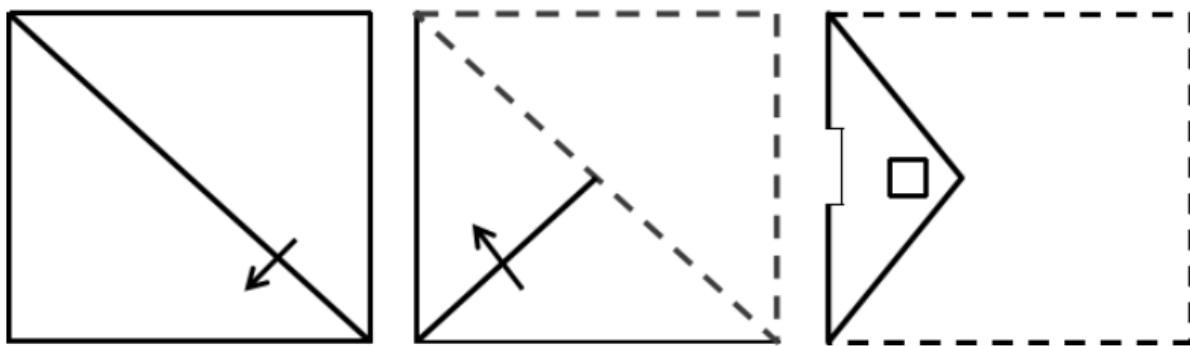
- A. Only 1 and 2
- B. Only 2 and 3
- C. Only 2
- D. Only 1, 2 and 4

Answer: Option C

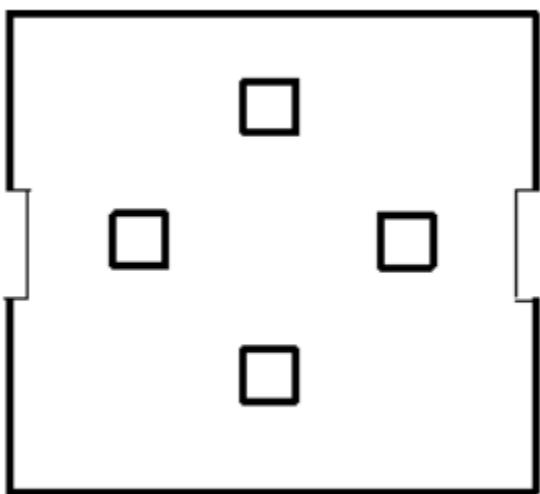
Q8. A paper is folded and cut as shown below. How will it appear when unfolded?

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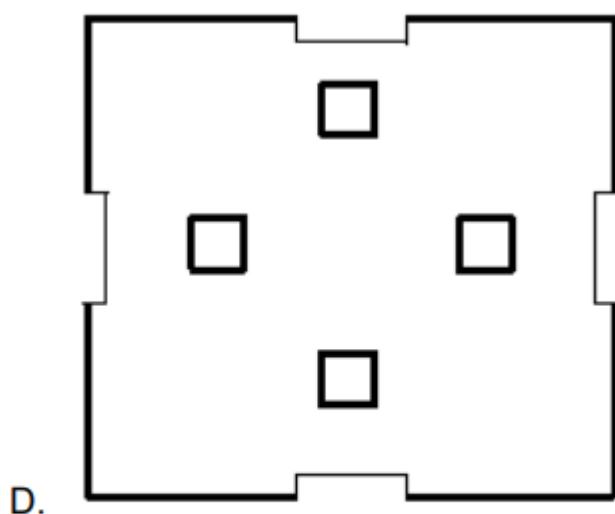
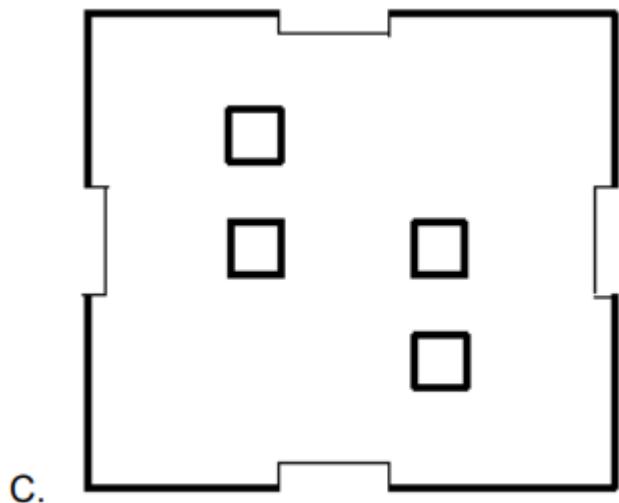
A.



B.

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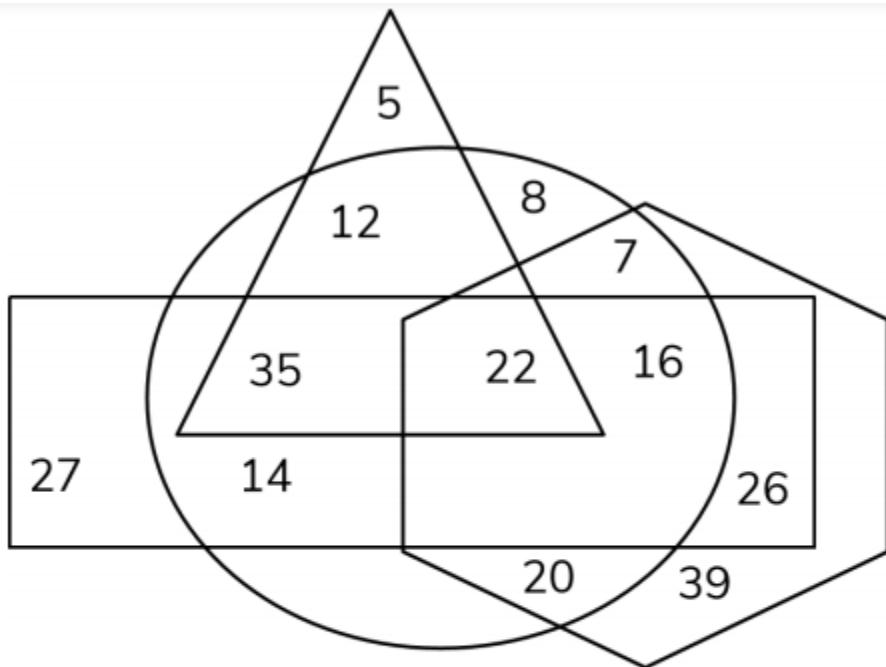


Answer: Option D

Q9. In the following diagram, the triangle stands for 'males', the circle for 'doctors', the rectangle for 'government employed', the hexagon for 'corona warriors'. The numbers in different segments show the number of persons for that segment. How many government employed doctors are Corona warriors but are not males?

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- A. 23
- B. 16
- C. 14
- D. 7

Answer: Option B

Q10. In a certain code, **A % B** means 'A is the brother of B', **A & B** means 'A is the mother of B', **A @ B** means 'A is the daughter of B', **A \$ B** means 'A is the father of B' and **A # B** means 'A is the sister of B'.

If **K \$ Z % U & H # T**, how is T related to U?

- A. Sister
- B. Husband
- C. Wife
- D. Brother

Answer: Option B

Q11 to 12. The number of employees working in six different departments of two companies A and B are given below. Study the given data and answer the questions that follow.

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Company A	
Department	Number of Employees
Marketing	256
HR	72
Production	504
Accounts	68
Operations	256
Planning	46
Total	1202

Company B	
Department	Number of Employees
Marketing	524
HR	108
Production	736
Accounts	122
Operations	146
Planning	58
Total	1694

Q11. If 30 employees of the Planning department quit Company B and join the Planning department of Company A, then what is the percentage of employees in the Planning department in the total employees in Company A?

- A. 5.34%
- B. 6.16%
- C. 6.32%
- D. 4.48%

Answer: Option B

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Q12. What is the percentage difference between the employees working the Production department of Company A and Company B?

- A. 2.27%
- B. 1.15%
- C. 1.52%
- D. 3.21%

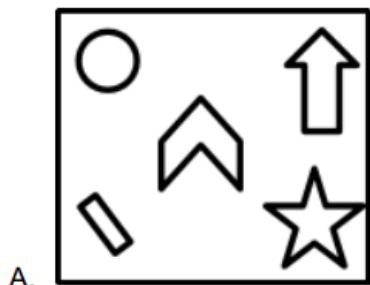
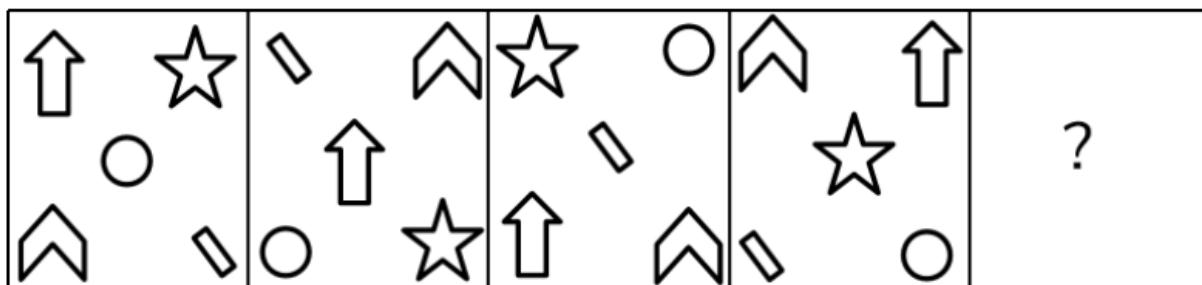
Answer: Option C

Q13. Nehal, Iqbal, Ronit, Malin and Harbhajan participate in any one of the five activities i.e. Quiz, Singing, Dance, Debate and Mimicry. Ronit participates in Singing. Harbhajan does not participate in Debate and Mimicry. Malini does not participate in Mimicry. Iqbal participates in Quiz. Who participates in Debate?

- A. Malini
- B. Nehal or Malini
- C. Nehal
- D. Cannot be determined

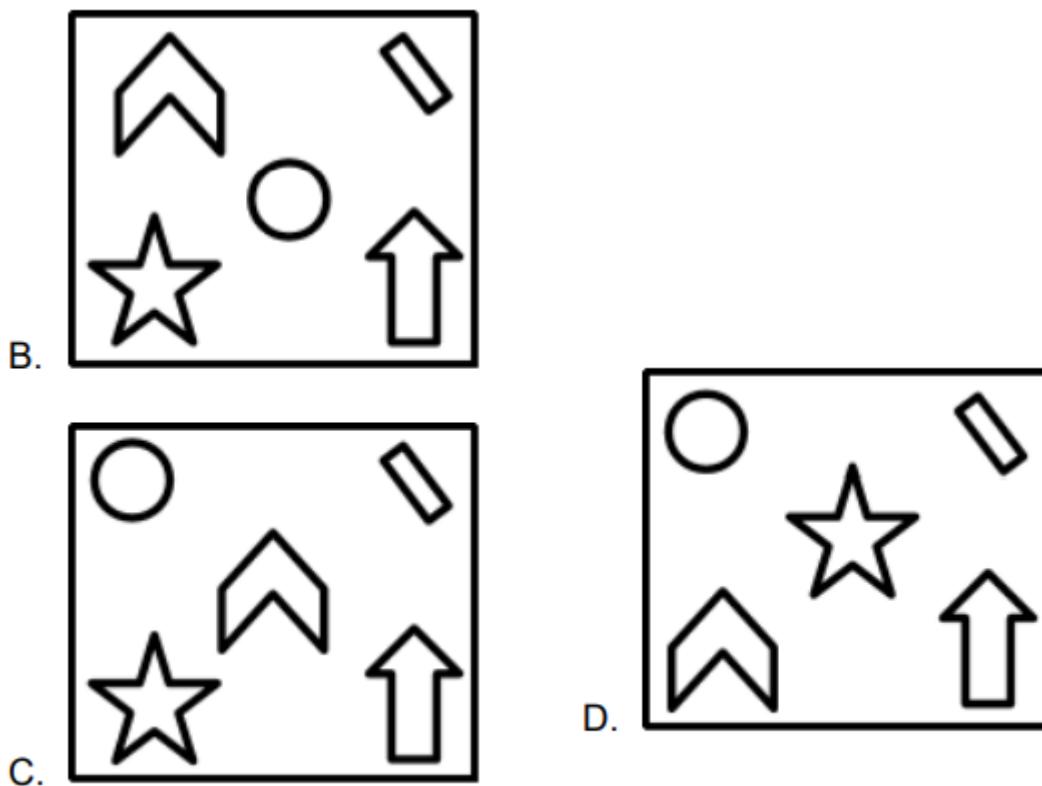
Answer: Option A

Q14. Select the figure that will replace the question mark in the following figure series.



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Answer: Option C

Q15. Two statements are given followed by three conclusions numbered I, II and III. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.

Statements:

All animals are plants.
All plants are shrubs.

Conclusions:

- I. Some shrubs are plants
- II. Some animals are not shrubs
- III. All animals are shrubs

- A. None of the conclusions follow
- B. Only conclusions I and III follow

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- C. Only conclusion II follows
- D. Only conclusions I and II follow

Answer: Option B

Q16. Given below is a question followed by two statements I and II, each containing some information. Decide which of the statements are sufficient to answer the question that follows.

How many Rs. would Shalini need to spend to buy 11 pencils and 14 pens?

- I. Shalini spent an amount of Rs.201 to buy 15 pencils and 12 pens.
- II. Shalini spent an amount of Rs.121 to buy 7 pencils and 9 pens.

- A. The combination of both the statements I and II are not sufficient.
- B. Statement II alone is sufficient.
- C. Statement I alone is sufficient.
- D. The combination of both the statements I and II are necessary.

Answer: Option D

Q17. Choose the best option.

Statement: Air quality has been polluted due to the increasing number of two-wheelers and four-wheelers.

Courses of action:

- I. There should be a complete ban on the sale of two-wheelers at least for the next 5 years.
 - II. Monitoring should take place to ensure that the vehicle's owners get their vehicles checked and certified for pollution-control.
 - III. Four wheelers cause more pollution, hence four-wheelers alone can be banned from running on the roads.
-
- A. None of the options follow
 - B. Only II follows
 - C. Only III follows
 - D. Only I follows

Answer: Option B

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Q18. In a certain code, K * N means K is the brother of N, K+N means K is the husband of N, K x N means K is the mother of N and K/N means K is the sister of N.

Which of the following expression means 'C is the daughter of Y'?

- A. Y + R x H / C * V
- B. Y + R x H * C / V
- C. Y x R + H * C / V
- D. Y + R x C * H / V

Answer: Option C

Q19. Five teachers P, Q, R, S and T teach a group of students in sequence between 9 am and 2 pm. Each teacher teaches for one hour. Q takes the first class. S teaches just after T. R teaches before P and T. Who takes the second class from 10 am to 11 am?

- A. S
- B. R
- C. P
- D. T

Answer: Option B

Q20. Given below is a question followed by two statements, I and II, each containing some information. Which of the following statements is/ are sufficient to answer the question?

How is A related to C?

Statements:

- I. A is the wife of B and B is the brother of C.
 - II. C is the son of D.
-
- A. Both I and II together are not sufficient
 - B. Statement I alone is sufficient
 - C. Statement II alone is sufficient
 - D. Both II and III together are sufficient

Answer: Option B

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Q21. Given below is a question followed by two statements, I and II, each containing some information. Decide which of the statements are sufficient to answer the question.

Five friends A, B, C, D and E are sitting in a line facing North. Who is sitting exactly in the middle?

- I. C is sitting between A and B. E is at the fourth place to the left of B.
 - II. E is sitting to the immediate left of D. C is to the immediate left of B.
-
- A. Statement II alone is sufficient.
 - B. Statement I alone is sufficient.
 - C. The combination of both the statements I and II are necessary.
 - D. The combination of both the statements I and II are not sufficient.

Answer: Option B

Programming Logic

Q1.. Given here is a scenario. Consider the graph algorithm and answer the given question.

John wants to go to different locations of the city in which he is. He has listed all of them down. However he wants to visit one location before visiting some other location. What application of graphs he uses to determine that location?

- A. DFS
- B. Dijkstra's
- C. BFS
- D. Topological Sorting

Answer: Option D

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Q2. What will be the output?

```
public class main {  
      
    int $ = 5;  
}
```

- A. Nothing will print
- B. Symbol not found error
- C. Runtime error
- D. Compile error

Answer: Option A

Q3. What will be printed if the below sample code is executed? Enter your answer only as a NUMERAL

```
class main  
{  
    public static void main(string args[])  
    {  
        int i,j,x=0;  
        for(i=0;i<5;i++)  
            for(j=0;j<5;j++){  
                x=(i+j-1);  
                System.out.print(x);  
                break;  
            }  
        System.out.print(x);  
    }  
}
```

Answer: -101233

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Q4. Which among the following is a server - based paradigm?

- A. Request for information
- B. Cloud computing
- C. Total Cost of Ownership
- D. Data Validation Routine

Q5. There are two integer numbers X and Y that are between 0 to 25. User stores the value under a 5 bit number. How many minimum bits are required to store the result of the below expression?

$$\text{Res} = 3 * (X - Y)$$

- A. 8
- B. 5
- C. 7
- D. 8

Answer: Option D

Q6. Find Prefix and suffix for the below infix problem statement :

Infix Expression : $11 + 20 / 5 * (20 - 15)^6 ^5$

- A. Prefix Expression: $11\ 20\ 15\ 20\ 5\ -\ ^{^6}\ 5\ /+$
Postfix Expression: $+20/11*5-20^{15}65$
- B. Prefix Expression: $11\ 20\ 5\ 20\ 15-6\ 5^{^6}/+$
Postfix Expression: $+11/20\ *5^{^6}-20\ 15\ 6\ 5$
- C. Prefix Expression: $11\ 20\ 5\ 20\ 15-\ ^{^6}/+6\ 5$
Postfix Expression: $+11/\ ^{^6}-20*5\ 20\ 15\ 6\ 5$
- D. Prefix Expression: $+11/20*5^{^6}-20\ 15\ 6\ 5$
Postfix Expression : $11\ 20\ 5\ 20\ 15-\ ^{^6}/+$

Answer: Option D

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Q7. Write the name of a library of functions which is used to perform arithmetic operations on BigInteger and BigDecimal.

Answer: import java.math.*;

Q8. When we declare constant pointer to integer, we CANNOT change:

- A. address in pointer variable
- B. changes are not permitted
- C. either address in pointer variable or value at that address
- D. Value pointed by the pointer

Answer: Option B

Q9. Which among the following is a server-based paradigm?

- A. Request for Information(RFI)
- B. Cloud Computing
- C. Total Cost Of Ownership(TCO)
- D. Data Validation Routine

Answer: Option B

Coding

Q1. Selection of MPSC exams include a fitness test which is conducted on ground. There will be a batch of 3 trainees, appearing for a running test on track for 3 rounds.

You need to record their oxygen level after every round. After trainees are finished with all rounds, calculate for each trainee his average oxygen level over the 3 rounds and select the one with the highest average oxygen level as the most fit trainee. If more than one trainee attains the same highest average level, they all need to be selected. Display the most fit trainee(or trainers) and the highest average oxygen level.

Note:

1. The oxygen value entered should not be accepted if it is not in the range between 1 and 100.
2. If the calculated maximum average oxygen value of the trainees is below 70 then declare the trainees as unfit with meaningful message as "All trainees are unfit"
3. Average oxygen values should be rounded

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Example 1:

INPUT Values

95
92
95
92
90
92
90
92
90

OUTPUT Values

Trainee Number: 1
Trainee Number ;3

Note: Input should be 9 integer values representing oxygen levels entered in order as

Round 1:

Oxygen value of trainee 1
Oxygen value of trainee 2
Oxygen value of trainee 3

Round 2:

Oxygen value of trainee 1
Oxygen value of trainee 2
Oxygen value of trainee 3

Round 3:

Oxygen value of trainee 1

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Oxygen value of trainee 2
Oxygen value of trainee 3

Oxygen must be in given format as in above example. For any wrong input final output should display "INVALID INPUT"

```
1 #include<iostream>
2 #include<cmath>
3 using namespace std;
4 int main()
5 {
6     int i, x, T1 = 0, T2 = 0, T3 = 0, count = 1;
7     double A1, A2, A3;
8     while(count <= 9)
9     {
10         cin >> x;
11         if(x >= 1 && x <= 100)
12         {
13             if(count % 3 == 1)
14                 T1 = T1 + x;
15             else if(count % 3 == 2)
16                 T2 = T2 + x;
17             else
18                 T3 = T3 + x;
19             count++;
20         }
}
```

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```
21         else
22             count++;
23     }
24     A1 = round(T1/3);
25     A2 = round(T2/3);
26     A3 = round(T3/3);
27     if(A1 <= 70 && A2 <= 70 && A3 <= 70) {
28         cout << "All trainees are unfit";
29         return 0;
30     }
31     if(A1 >= A2 && A1>= A3)
32         cout << "Trainee Number: 1" << endl;
33     if(A2 >= A1 && A2 >= A3)
34         cout << "Trainee Number: 2" << endl;
35     if(A3 >= A1 && A3 >= A2)
36         cout << "Trainee Number: 3" << endl;
37     return 0;
38 }
```

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Q2. There is jar full of candies for sale at a mall counter. JAR has the capacity N, that is JAR can contain maximum N Candies when JAR is full. At any point of time, JAR can have M number of candies where $M \leq N$. Candies are served to the customers. JAR is never remaining empty as when last K candidates are left, JAR is refilled with new candidates in such a way that JAR gets full.

Write the code to implement above scenario. Display JAR at counter with available number of candies.

Input should be number of candies one customer orders at point of time. Update the JAR after every purchase and display JAR at counter. Output should give number of candies sold and updated number of candies in JAR. If input is more than number of candies in JAR, return "INVALID INPUT". Given,

$N=10$, Where N is number of candies available, $K \leq 5$, Where K is number of minimum candies that must be inside JAR ever.

Example1: ($N=10, K \leq 5$)

Input Value

3

Output Values:

Number of Candies Sold: 3

Number of Candies available: 7

```
1 #include<iostream>
2 using namespace std;
3 int main()
4 {
5     int N = 10, k;
6     cin >> k;
7
8     if(k <= 0)
9     {
10         cout << "INVALID INPUT" << endl;
11         cout << "NUMBER OF CANDIES AVAILABLE: " << N << endl;
12     }
13     else
14     {
15         cout << "NUMBER OF CANDIES SOLD:" << k << endl;
16         cout << "NUMBER OF CANDIES AVAILABLE:" << N-k << endl;
17     }
18 }
```

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