

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

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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.

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Numerical Ability

Q1. What is the value of $1.59 \times 1.59 + 8.46 \times 0.53 + 9 \times 0.47 \times 0.47$?

- A. 9.025
- B. 6.25
- C. 9
- D. 4

Answer: Option C

Q2. For a grouped frequency distribution having eight classes, the upper class boundaries of the lowest and the highest classes are 10 and 66 respectively. What is the lower class boundary of the highest class?

- A. 57
- B. 60

- C. 58
- D. 59

Answer: Option B

Q3. What is the simplified value of: $(7^2 + 24^2) / [20^2 - \frac{1}{2}(52^2 - 1) + 10\{(0.3)^2 + (0.1)^2\} - 2 \times 7]^2$?

- A. 1/5
- B. 1/225
- C. 1/125
- D. 1/25

Answer: Option B

Q4. If $\frac{\sqrt{7} + \sqrt{5}}{\sqrt{7} - \sqrt{5}} = a - b\sqrt{35}$, then the value $a - 2b$ is

- A. 4
- B. 5
- C. 8
- D. 7

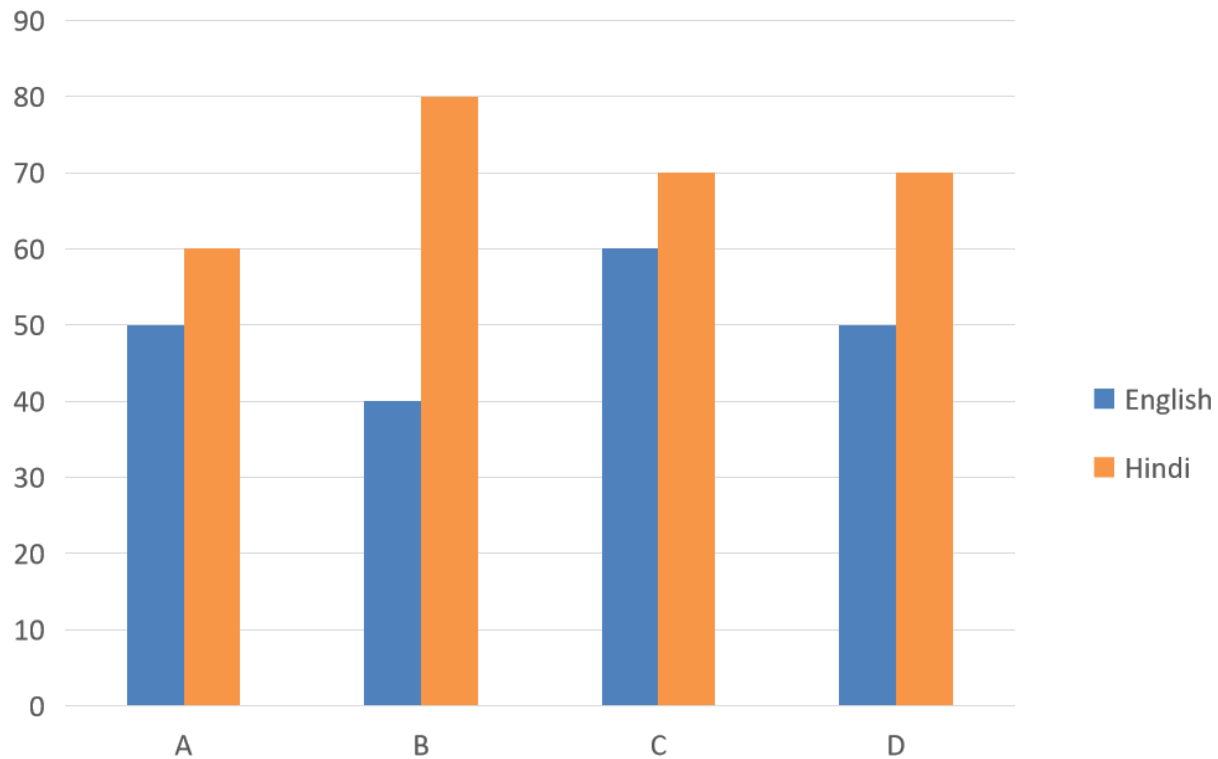
Answer: Option C

Q5. Four men and two women can do a piece of work together in one day. If a woman is twice as efficient as a man, in how many days can a woman working alone do the work?

- A. 4
- B. 6
- C. 8
- D. 2

Answer: Option A

Q6. The average marks (out of 100) scored by the students of four towns A, B, C and D of a district, in English and Hindi at a secondary level examination held in 2019 are presented through a Bar Graph shown below.



How much percentage (correct up to two decimal places) are the average marks in Hindi above that of the highest marks among the towns in English?

- A. 18.33
- B. 14.33
- C. 16.67
- D. 20.67

Answer: Option C

Q7. The median of the following data is_____.

Class	0-10	10-20	20-30	30-40	40-50
Frequency	10	15	12	15	8

- A. 24.266
- B. 24.266
- C. 24.123
- D. 24.166

Answer: Option D

Q8. Raju buys 3 goats and 2 sheeps for Rs.11600. When he sells the goats at 20% profit and the sheep at 10% loss, he earns a total profit of Rs.1000. The cost of one sheep is___.

- A. Rs.2600
- B. Rs.4600
- C. Rs.2400
- D. Rs.2200

Answer: Option D

Q9. A train starting from station X was to arrive at station Y at 6:06 PM. It could travel at 62.5% of its usual speed and reach Y at 7 PM. At what time did it start from X?

- A. 4:44 PM
- B. 4:56 PM
- C. 4:36 PM
- D. 4:24 PM

Answer: Option C

Q10. The sum of two numbers is 2604 and their HCF is 124. Which is the smaller between them if their difference is the least possible?

- A. 1116
- B. 1240
- C. 620
- D. 496

Answer: Option B

Q11. In how many ways can X give Rs.500 to Y using only Rs.100 and Rs.20 notes, with the condition that she has only 16 notes of Rs.20, and being asked to use the notes of both the denominations?

- A. 6
- B. 3
- C. 4
- D. 2

Answer: Option C

Q12. What sum (in Rs) given on loan for two years with scheme of return on the basis of compound interest at a yearly rate of 10% will correspond to repayment through equal monthly installments of Rs.9075?

- A. 165000
- B. 180000
- C. 189000
- D. 198000

Answer: Option B

Q13. 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. 49000
- B. Rs. 47500
- C. Rs. 50500
- D. Rs. 50000

Answer: Option D

Q14. The capacities of three containers X, Y and Z are 1, 2 and 4 liters respectively. Initially, X is empty, while Y and Z are full of water and milk respectively. X is filled from Y, Y is replenished from Z and X is emptied into Z. If this process is repeated once more, then what will be the ratio of milk in Y to water in Z?

- A. 3:5

- B. 1:1
- C. 4:3
- D. 4:5

Answer: Option
B

Q15. A particular distribution is represented by two data points. If the range and the standard deviation of the distribution are R & S respectively, what is the relation between them?

- A. $S = \sqrt{R}$
- B. $S = 2R$
- C. $S = \frac{R}{2}$
- D. $S = \frac{R}{\sqrt{2}}$

Answer: Option D

Q16. The average score in Mathematics of a class increases by 10% if the total marks secured by a number of students who form 20% of the class strength and whose average score is 48 is not included in the calculation. What is the average score?

- A. 90
- B. 60
- C. 75
- D. 80

Answer: Option D

Q17. What will be the percentage increase in the area of a square, If its side is increased by 20%?

- A. 44%
- B. 40%
- C. 36%
- D. 20%

Answer: Option A

Q18. If 25% of a number is equal to the three-fifths of another number, what will be the ratio of the first number to the second number?

- A. 5:12

- B. 12:5
- C. 12:15
- D. 15:12

Answer: Option B

Q19. The ratio of incomes of P and Q is 7:5 and the ratio of their expenditures is 4:3. If at the end of the year, P and Q save Rs.3000 and Rs. 2000 respectively, what is Q's income?

- A. Rs.5000
- B. Rs.4500
- C. Rs.4000
- D. Rs.7000

Answer: Option A

Q20. A hollow spherical ball of thickness 1 cm and external radius 5 cm is melted and then from the solid so obtained, without any loss of material, 61 identical spherical balls are obtained.

What is the diameter (in cm) of each ball?

- A. 1.5
- B. 3
- C. 1
- D. 2

Answer: Option C

Q21. 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

Q22. Four distributions AddaJobs, Peepinsta, PhraseSeven, Offlineprepare9i are given below:

AddaJobs: 4, 2, 1, 3, 3, 5, 6, 9, 8, 7

Peepinsta: 4, 5, 6, 7, 8, 9, 10, 11, 12, 13

PhraseSeven: 5, 6, 4, 5, 7, 5, 8, 1, 5, 2

Offlineprepare9i: 2, 6, 6, 11, 10, 9, 10, 8, 7

What is the mean of the two modes in the only bimodal distribution among the above?

- A. 5
- B. 3
- C. 6
- D. 8

Answer: Option D

Verbal Ability

Qs 1 to 4: Read the passage given below and answer the questions.

Man-made fibres are to be distinguished from natural fibres such as silk, cotton, and wool. Natural fibres also consist of polymers (in this case, biologically produced compounds such as cellulose and protein), but they emerge from the textile manufacturing process in a relatively unaltered state. Some man-made fibres, too, are derived from naturally occurring polymers. For instance, rayon and acetate, two of the first man-made fibres ever to be produced, are made of the same cellulose polymers that make up cotton, hemp, flax, and the structural fibres of wood. In the case of rayon and acetate, however, the cellulose is acquired in a radically altered state (usually from wood-pulp operations) and is further modified in order to be regenerated into practical cellulose-based fibres. Rayon and acetate therefore belong to a group of man-made fibres known as regenerated fibres.

Another group of man-made fibres (and by far the larger group) is the synthetic fibres. Synthetic fibres are made of polymers that do not occur naturally but instead are produced entirely in the chemical plant or laboratory, almost always from by-products of petroleum or natural gas. These polymers include nylon and polyethylene terephthalate, mentioned above, but they also include many other compounds such as the acrylics, the polyurethanes, and polypropylene. Synthetic fibres can be mass-produced to almost any set of required properties. Millions of tons are produced every year.

Q1. This passage is mainly about_____.

- A. The processing of man-made fibres
- B. The difference between natural and man-made fibres
- C. The mass production of man-made fibres
- D. Different types of man-made fibres

Answer: Option A

Q2. Which statement is correct according to the information in the passage?

- A. Wool cannot be considered as a natural fibre
- B. Natural fibres do not contain any polymers
- C. Synthetic fibres are mass produced in millions of tons
- D. Synthetic fibres are the smallest group of man-made fibres

Answer: Option C

Q3. What by-products are created out of the chemical processing of petroleum or natural gas?

- A. Polyester
- B. Rayons
- C. Acetate
- D. Cellulose

Answer: Option A

Q4. About which of the following does the writer say that they were the first man-made fibres?

- A. Acetate and rayon
- B. Flax and rayon
- C. Wool and silk
- D. Cotton and hemp

Answer: Option A

Q5. Read the following passage and fill in the blanks by selecting the most appropriate option.

The word “SARI” means “strip of cloth” in Sanskrit. But for the Indian women - and a few men - who have been____(1)____themselves in silk, cotton or linen for millenia, these swathes of fabric are more than just simple garments. They are symbols of national pride, ambassadors for____(2)____ design and craftsmanship, and a prime example of the rich differences in India’s 29 states.

Blank 1: A. Trying B. Binding C. Draping D. Fastening

Blank 2: A. Outdated B. Fixed C. Habitual D. Traditional

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

Answer: Option D

Q6. Select the most appropriate option to fill in the blank.

Look carefully, can’t you_____the resemblance between the mother and the daughter?

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

Answer: Option A

Q7 to Q10 Read the passage carefully and answer the questions given below.

The field of behavioral economics blends ideas from psychology and economics, and it can provide valuable insight that individuals are not behaving in their own best interests.

Behavioral economics provides a framework to understand when and how people make errors. Systematic errors or biases recur predictably in particular circumstances. Lessons from behavioral economics can be used to create environments that nudge people toward wiser decisions and healthier lives.

Behavioral economics emerged against the backdrop of the traditional economic approach known as rational choice model. The rational person is assumed to correctly weigh costs and benefits and calculate the best choices for himself. The rational person is expected to know his

preferences (both present and future), and never flip-flop between two contradictory desires. He has perfect self-control and can restrain impulses that may prevent him from achieving his long-term goals.

Traditional economics uses these assumptions to predict real human behavior. The standard policy advice that stems from this way of thinking is to give people as many choices as possible, and let them choose the one they like best (with minimum government intervention). Because they know their preferences better than government officials do. Individuals are in the best position to know what is best for them.

In contrast, behavioral economics shows that actual human beings do not act that way. People have limited cognitive abilities and a great deal of trouble exercising self-control. People often make choices that bear a mixed relationship to their own preference (happiness). They tend to choose the option that has the greatest immediate appeal at the cost of long-term happiness, such as taking drugs or overeating.

Q7. Which statement best summarises what the writer is saying in the passage?

- A. People are guided according to their individual personalities in their choices and decisions.
- B. People make many wrong choices when they are in a difficult situation.
- C. People need someone to control them and regulate their public behaviour.
- D. People are often confused and irrational in their behaviour when faced with challenges.

Answer: Option A

Q8. In the fifth paragraph the writer states that individuals often _____

- A. Sacrifice long-term benefits in favour of short-term pleasures.
- B. Get carried away by the influence of powerful pressures.
- C. Overlook short term benefits for long-term advantages.
- D. Are swayed by peer pressure to change their opinions.

Answer: Option A

Q9. What does the writer call the traditional economics model?

- A. Systematic error
- B. Rational choice
- C. Mixed preference
- D. Standard policy

Answer: Option B

Q10. Which of the following action words does the writer use to describe the implicit purpose of behavioural economics in human behaviour?

- A. To blend
- B. To appeal
- C. To nudge
- D. To restrain

Answer: Option C

Q11. Fill in the blanks with the most suitable options.

Since the early 1900s, many glaciers around the world have been rapidly melting _____(1)_____. Specifically, since the industrial revolution, carbon dioxide and other greenhouse gas emissions have raised temperatures, even higher in the poles.____(2)_____ Scientists project that if emissions continue to rise unchecked, the Arctic could be ice free in the summer as soon as the year 2040 as ocean and air temperatures continue to rise rapidly.

- a. More than a third of the remaining glaciers of the world would have melted by 2030.
- b. As a result, glaciers are rapidly melting, calving off into the sea and retreating on land.
- c. Human activities are at the root of this phenomenon.

- A. (1) c, (2) a
- B. (1) c, (2) b
- C. (1) b, (2) c
- D. (1) a, (2) b

Answer: Option D

Q12. One part of the sentence below may contain grammatical errors. Identify the part. If there is no error, choose 'No error'

India's chess olympiad gold-winning team captain Vidit Gujrathi says that the experience of playing against, and defeating Iconic Viswanathan Anand was the most special moment of his life

- A. India's chess olympiad gold-winning team captain
- B. No error
- C. says that the experience of playing against, and defeating
- D. was the most special moment of his life

Answer: Option C

Q13. Trans-Saharan Railway was a project to build a rail line south through Algeria to sub-Saharan Africa (1)_____. But Algiers was comparatively near France and possesses, moreover, its own means of defence, so that if it and the other parts of French Africa could be firmly knit together by a railroad there would be little to fear from an outside foe. (2)_____. Such a road would bring the different parts of the country into touch with one another and would greatly facilitate their economic conquest.

- A. Besides the strategic reasons in favor of a Trans-Sahara railroad, there were political and economic ones as well.
 - B. The southern portions of the French African Empire were practically isolated, the vast interior regions presenting an almost insurmountable barrier between them and Algiers, so that in case of a war with a strong naval power like England, they would be in great danger.
 - C. As far back as 1880, some preliminary surveys to the south of Algiers were made by exploring parties.
- A. (1)-B, (2)-A
 - B. (1)-B, (2)-C
 - C. (1)-C, (2)-B

Answer: Option A

Q14. 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: US president Donald Trump on Wednesday refused to commit himself to allow a peaceful transfer of power if he lost his November-3 re-election bid, raising the largely unfounded prospect of widespread fraud in mail-in ballots.

S-2:

S-3:

S-4: And as a candidate in 2016, he had refused to say he would accept the outcome of the election if he lost.

P. This is not the first time he was not committal on the issue, taking the stance most recently in an interview to fox news

Q. If it was a fair and free election, Trump claimed, there will be “continuation “ of power, and not transfer

R. President Trump married to Melania Trump, a former model, some years ago

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

Answer: Option C

Q15. Fill in the blanks with the right options.

Many women in Western society, aware of the power of names to influence identity, are aware that choosing how to identify themselves after marriage can be a significant decision.

_____ (1)
)

_____ One fascinating survey reveals that a woman's choice is likely to reveal a great deal about herself and her relationship with her husband. _____ (2) On the other hand, women who keep their birth names put their personal concerns ahead of relationships and social expectations.

- a. Women who take their husband's name place the most importance on relationships.
 - b. Female forms of address influence others' perceptions as well
 - c. They may follow the tradition of taking their husband's last name, hyphenate their own name and their husband's, or keep their birth name.
- A. (1) b, (2) a
 - B. (1) a, (2) b
 - C. (1) c, (2) a
 - D. (1) b, (2) c

Answer: Option C

Q16. 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: INS Vikrant was the first aircraft carrier to be designed by the directorate of Naval design of the Indian Navy

S-2:

S-3:

S-4: Due to this, it became the first ship to be built completely using domestically produced steel

P. The Keel for Vikrant was laid by the Defence Minister at the Cochin shipyard on 28th February 2009.

Q. It took a longtime to build a warship which was indigenously built by the cochin shipyard

R. About 26,000 tons of different types of steel were manufactured by the Bhilai steel plant, chhattisgarh and Rourkela Steel plant, Odisha

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

Answer: Option D

Q17. One part of the sentence below may contain an error. Identify the part. If there is no error, choose 'No error'.

While I was working, I have received a call from my sister.

- A. I have received
- B. While I was working
- C. a call from my sister
- D. No error

Answer: Option A

Q18. Which of the following sentences using formal language?

- A. This was really cool, keep them coming!
- B. This just doesn't work for me, you'll have make another submission of the design.
- C. Do not stress yourself, we'll figure it out somehow
- D. You are required to submit the documents for due diligence prior to release of the loan.

Answer: Option D

Q19. The following sentence pair can be combined into one better sentence. Choose the option that gives the best combination without changing the meaning.

You did not measure the ingredients correctly. Your cake did not come out well.

- A. If you had measured the ingredients correctly your cake would not have come out well.
- B. If you had measured the ingredients correctly your cake would have come out well.
- C. As you had measured the ingredients correctly your cake did not come out well.
- D. Because you had not measured the ingredients correctly your cake would have come out well.

Answer: Option B

Q20. Read the passage carefully. Then select the words/ options listed A to D which best fill in the blanks:

The Moon should give you a feeling of confidence but will affect your temper, and there will be a few mood swings and these in turn will bring (1)_self-doubt. However, in the final analysis you should feel hopeful about the future. Optimism breeds success - and attacks (2)

_____employers. Watch out for dictatorial people and take evasive action. If you can stay out of their way, then you will end the day much happier!

Options:

Blank 1:

- 1. certainly
- 2. occasional
- 3. cowardice
- 4. many

Blank 2:

- 1. anger
- 2. potential
- 3. by-law
- 4. dangerous

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

Answer: Option B

Q21. Fill in the blank with the most appropriate set of words from the options given below.

What did the painter do _____ himself from failing?

When he felt the ladder _____ he grabbed the gutter to save himself from failing

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

Answer: Option C

Q22. Select the most appropriate option to fill in the blank.

"I've achieved a life goal, a dream for myself _____ I had for many years," the winner said.

- A. whom
- B. who
- C. whose
- D. which

Answer: Option D

Q23. One part of the sentence below may contain a grammatical error. Identify the part.

If there is no error, choose 'No error'.

The new suspension bridge over the large lake were inaugurated yesterday with great fanfare and illuminations.

- A. No error
- B. with great fanfare and illuminations
- C. were inaugurated yesterday
- D. The new suspension bridge over the large lake

Answer: Option C

Q24. For the four-sentence (S1 to S4) paragraph below, sentences S1 and S4 are given.

From the options P, Q and R, choose appropriate sentences for S2 and S3 respectively.

S-1: Since the COVID -19 pandemic has disrupted the normal lifestyle of people across the globe, the virtual world has come to the rescue.

S-2

S-3

S-4: Accordingly, various stakeholders such as government and private organizations are trying their best to assist each other by sprucing up their existing online platforms, apps and providing training to teachers to use these apps and platforms to the optimum level.

P. Consequently, catering to the needs of all stages of education from pre-primary to university level online education has emerged as an alternative to ordinary face to face classes

Q. Amongst many institutions, schools have also shifted their base to virtual platforms to conduct classes online.

R. Apart from upskilling teachers on apps, organising counselling sessions for other stakeholders such as parents and students are some of the important measures taken by these organizations.

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

Answer: Option C

Logical Ability

Question 1: Nehal, Iqbal, Ronit, Malini 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?

- 1. Cannot be determined
- 2. Nehal
- 3. Malini
- 4. Nehal or Malini

Answer - Malini

There must be a option here “None of these” as all these are false

Question 2: In a certain code $P + Q$ means P is the father of Q, $P - Q$ means P is the wife of Q, $P \times Q$ means P is the daughter of Q and P / Q means P is the brother of Q.

If $F \times G - H + J - K$, which of the following statements may not be true.

- 1. K is the son of G
- 2. J is the brother of F
- 3. F is the sister of K
- 4. H is the father of K

Answer - All Options are False

Question 3: Six friends P, Q, R, S, T and U are standing in a queue at a ticket counter. Q is between U and P. S is just before T. R is just before U. U is ahead of S with two persons in between them. Who is standing at the last place in the queue?

1. P
2. U
3. S
4. T

Answer - Option D (T)

Question 4: All the teaching faculties are notified that the University will provide transport facilities at a minimum cost from the nearby residential areas to the University except those who have been provided with travelling allowance.

Assumptions:

1. Most of the teaching faculties will travel by University's bus.
 2. Those teachers who are provided with travelling allowance ignore such notice
-
1. Both I and II are implicit
 2. Only I is implicit
 3. Only II is implicit
 4. Neither I nor II is implicit

Answer - Only II is implicit

Question 5: In each of the five pairs of letter clusters, the letters in the second term are a rearranged/ transformed form of the letters in the first term in a particular pattern. In which two pairs, the transformation has been done the same way?

1. FRESH - SRHFE
2. CLIMB - BMILC
3. DOUGH - UODHG
4. MIXER - XRMIE
5. CRANK - ACRKN

1. C and D
2. B and E
3. A and D
4. Missing

Answer - C and D

Question 6: 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 amount would Mr Anuj need to pay to the taxi company for traveling a distance of 121 km?

- I. The taxi company charges Rs. 11 per km along with a fixed charge applicable on all journeys.
II. The taxi company charged Rs. 835 which included the fixed charge for a journey of 35 km.

1. Both the statements I and II together are necessary
2. Both the statements I and II together are not sufficient
3. Statement II alone is sufficient
4. Statement I alone is sufficient

Answer - Option A

Question 7: 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.

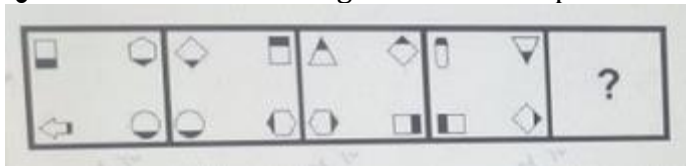
Eight friends A, B, C, D, E, F, G and H are sitting around a circular table clockwise in the same sequence around a circular table facing the centre at equal distance between them. Who's sitting in the South East direction?

Statements:

1. C is sitting diagonally opposite to G
 2. B is sitting in West direction
1. Statement I alone is sufficient
 2. Statement II alone is sufficient
 3. Both the statements I and II together are necessary
 4. Both the statements I and II together are not sufficient

Answer - Statement II alone is sufficient

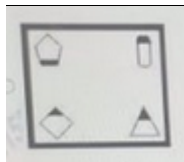
Question 8: Select the figure that will replace the question mark from the following series:



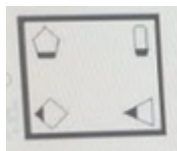
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2.



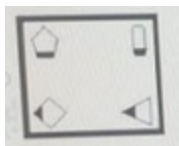
3.



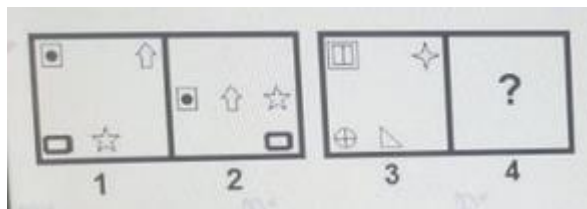
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Answer -



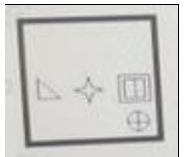
Question 9: Select the option that is related to the third figure in the same way as the second figure is related to the first figure.



1.



2.



3.



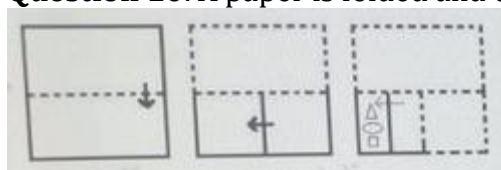
4.



Answer - Option 1.

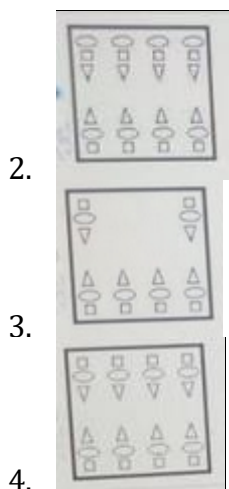


Question 10. A paper is folded and cut as shown below. How will it appear when unfolded?



1.





Answer - Option 4



Question 11: Read the following information carefully and answer the given questions.

A public charitable trust desires to select a Homeopathy doctor for its hospital in a rural area based on the following criteria

The candidate must be-

- (i). holding BHMS degree with minimum 60% marks
- (ii) having 5 years of experience of practice in a rural area
- (iii) having a good knowledge of the local language.

In case of applicant who satisfies all other criteria except-

1. at (i) above, but has my minimum 50% marks at BHMS and has completed MD with 55% his/her cases to be referred to the chief Medical Officer
2. at (ii) above, but has 3 years full time experience of practice in an urban or rural hospital but spent at least 5 years in a rural area, his/her case is to be referred to the Secretary.
3. at (iii) above, but has working knowledge of Hindi, his/ her case to be referred to Hospital Management

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

Jasvinder has completed BHMS with a minimum of 52% marks and also has completed MD with a minimum of 55% marks. He has practiced for six years in a remote village. He has a good knowledge of Hindi as well as the local language. What decision would be taken for him?

1. Refer to the hospital management
2. he would be selected
3. refer to the secretary
4. refer to chief medical officer

Answer: Refer to Chief Medical Officer.

Question 12: Three statements are given followed by 4 conclusions numbered I, II, III and IV. 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.

Statement

All organizers are participants

Some organizers are managers.

All managers are females.

Conclusion

I. Some participants are managers.

II. Some females are participants.

III. No female is an organizer

IV. All participants are female

Options

1. Only conclusion II, III and IV follows
2. Only conclusion I and IV
3. Only conclusion I and II and III follows
4. Only conclusion I and II follow

Answer - Only conclusion I and II follow

Question 13: 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.

Is the expression “ $B > E$ ” correct?

1. $B = C > D > F = M$
 2. $H = M > T > E = P$
- both statements I and II together are necessary.
 - statement II alone is sufficient
 - both the statements I and II together are not sufficient.
 - statement I alone is sufficient

Answer -both statements I and II together are necessary.

Options for the following questions are incorrect, as the ratio given in both option A and option C are incorrect

Question 14: The number of students studying in six different disciplines of a college are given below. Study the given data and answer the questions that follow

Number of students in different disciplines

Disciplines	Total	Boys	Girls
Science	1020	680	340
Social Science	2380	1700	680
Humanities	1700	510	1190

Law	680	408	272
Management	1700	1020	680
Commerce	2040	1190	850
Total	9520	5508	4012

Which of the following pairs of the name of the discipline and its ratio of boys to girls is not correct?

1. Social Science, 5:2
2. Law, 3:2
3. Commerce, 7:3
4. Science, 2:1

Answer: -Social Science, 5:2, Commerce 7:3,

Question 15: 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 the follow-up/ improvement in regard to the problem) logically follow(s) for pursuing.

Statement:

The management of the organisation has decided to give free lunch from next month to all employees. This PDF is the sole property of PrepInsta Technologies, we have just copied the content from them.

Courses of Action-

1. The organization would appoint Chefs who would prepare healthy and tasty food for the staff
 2. The pantry facilities have to be checked and new purchases have to be made
 3. Funds will have to be allocated to facilitate the new pantry facilities.
- All of I, II and III follow
 - Only III follows
 - Only I and II follows
 - Only I follows

Answer: All of I, II and III follow

Question 16: Question: The following are the criteria of recruitment for the post of Manager at an organization.

The candidate must--

1. have completed graduation from any stream with more than 70%
2. be less than 30 years of age as on June 1, 2020
3. have completed a PG diploma in creative writing with at least 75% marks

However, if the candidate fulfills all the above criteria except

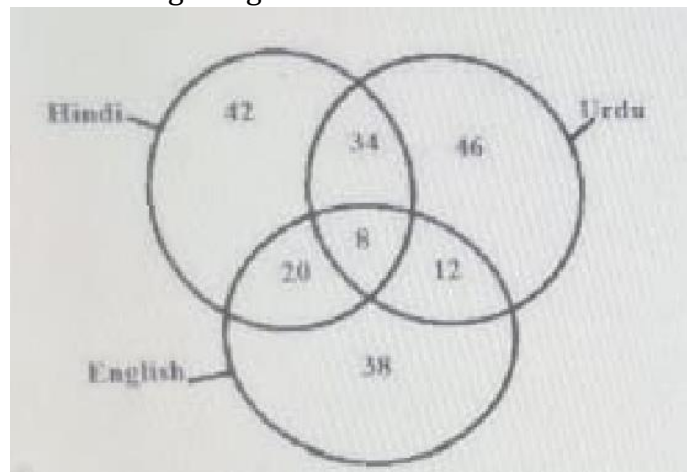
4. at (b), but has done post graduation in journalism, his/ her case to be referred to the vice president.
5. at (c) , but have secured more than 85% marks in graduation in his/her case to be referred to the Senior Creative Manager.

Natasha completed her graduation from commerce stream with 70% marks. She completed her post graduation in journalism in 2018 at the age of 29 years. She has completed a PG diploma in creative writing with 75% marks.

- Her case is to be referred to the vice president
- She would be selected
- Her case is to be referred to the Senior Creative Manager
- She would not be selected

Answer: She would not be selected

Question 17: Consider the venn diagram given below:



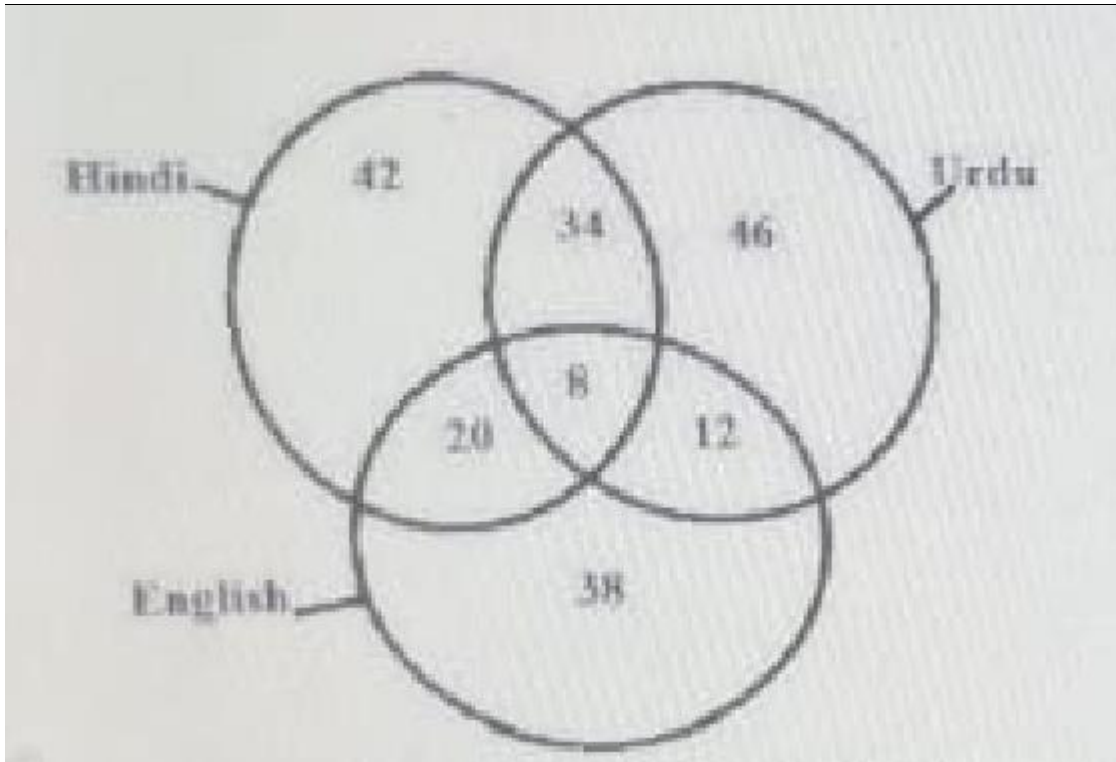
The number in the Venn diagram indicates the number of persons who can speak various languages in a city. The diagram is drawn after surveying 200 persons in a population of 15,000. How many people can be expected to speak just one language?

Options.

1. 8400
2. 8750
3. 9600
4. 9450

Answer - Option D

Question 18: Consider the venn diagram given below:

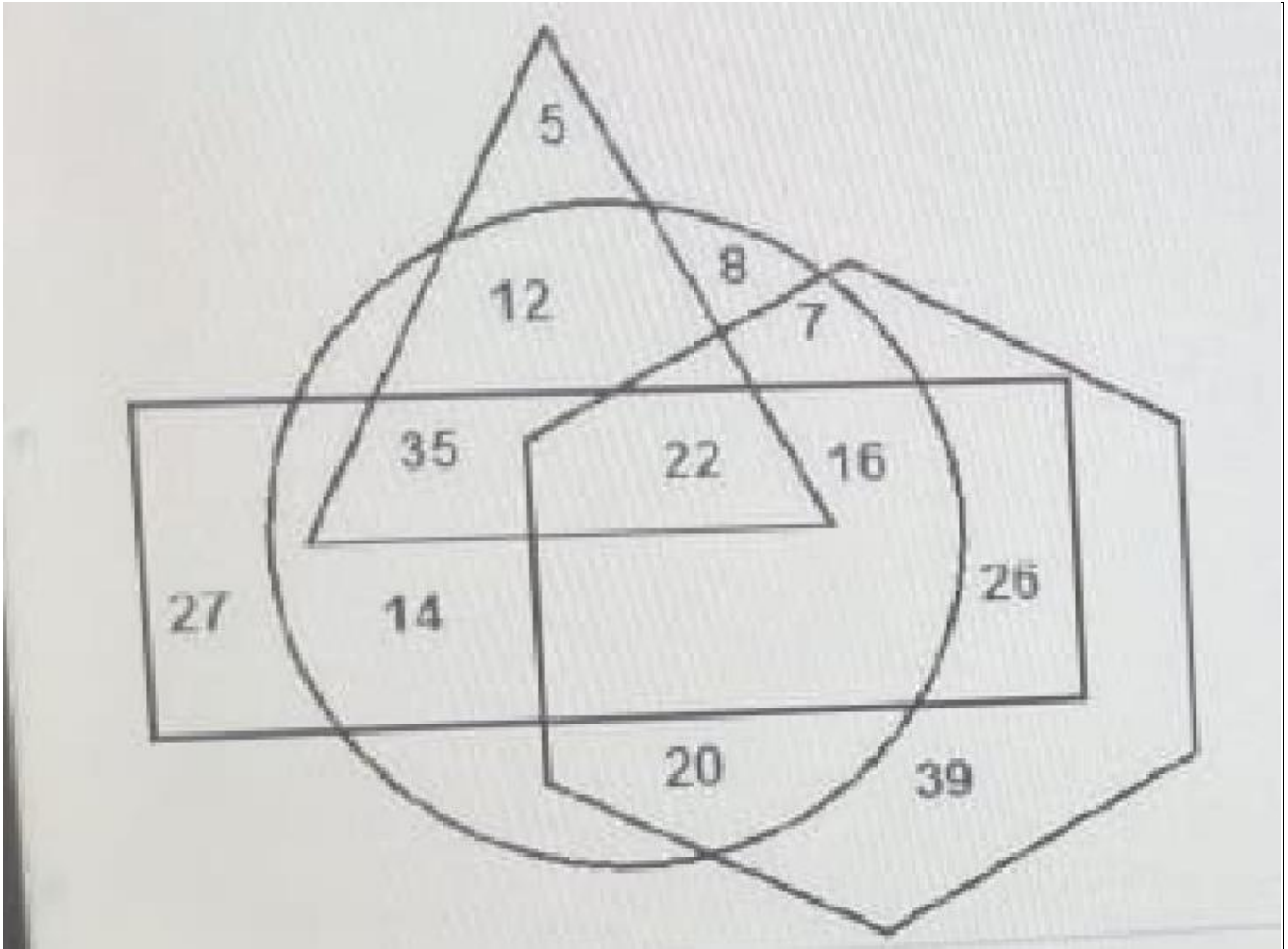


The number in the Venn diagram indicates the number of persons who can speak various languages in a city. The diagram is drawn after surveying 200 persons in a population of 15,000. How many people can be expected to speak at least two languages?
Options

1. 4950
2. 2900
3. 5200
4. 2400

Answer - 5550

Question 19 : In the following diagram, the triangle stands for 'males' the circle stands for the 'doctors' rectangle stands for 'government employed' the hexagon stands for 'corona warriors'. The numbers in different segments show the number of persons of that segment. The following PDF is made by PrepInsta, we are copying the content from them.

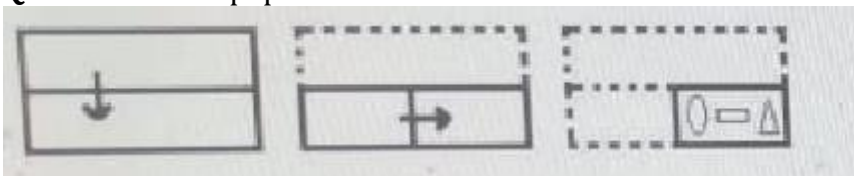


How many government employed doctors are either Corona warriors or males or both?

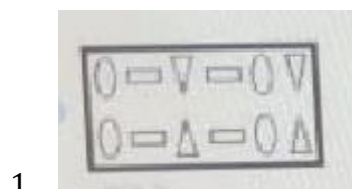
1. 73
2. 22
3. 35
4. 38

Answer : 73

Question 20 : A paper is folded and cut as shown below. How will it appear when unfolded?

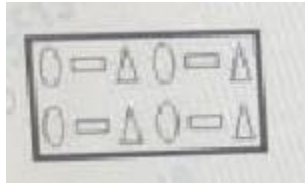


Options.

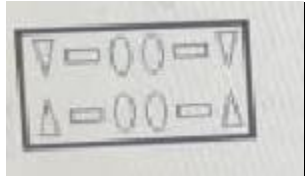


1.

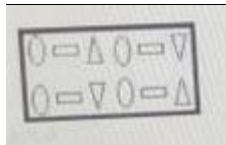
2.



3.



4.



Answer - Option C

Question 21: 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:

No cylinder is a drum.

All balls are cylinders.

Conclusions:

I- No drum is a cylinder.

II- Some cylinders are balls.

III- No ball is drum.

1. Only conclusion I and III follow.
2. Only conclusion I and II follow.
3. All of the conclusions follow.
4. Only conclusion II and III follow.

Answer: All of the conclusions follow.

Question 22: In a certain code,

A%B means A is the husband of B,

A&B means A is the son of B,

A#B means A is the wife of B,

A@B means A is the daughter of B,

A\$B means A is the sister of B

If Q \$ M \$ P @ C # H & R % Z then which of the following statements is NOT correct?

1. H is father of Q
2. Z is mother of H
3. Z is mother-in-law of C
4. R is maternal grandfather of Q

Answer: R is maternal grandfather of Q

The data is given wrong in this question, according to the question A and G both play Congo

Question 23: Seven friends A, B, C, D, E, F, and G play one of the seven musical instruments i.e. Guitar, Flute, Dholak, Congo, Piano, Drum, and Violin. E does not play Congo. A, E and G do not play violin, flute and guitar. F plays piano, D plays drum. Who plays Congo?

1. G
2. A
3. C
4. B

Question 24: 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:

Happiness of a person does not depend only on his wealth.

Assumptions:

I- Overall well being is also important which contributes to happiness.

II- Wealth alone does not provide happiness.

III- The main objective of most of the persons is just acquiring more wealth.

1. Only I and II are implicit.
2. Only I is implicit.
3. Only II is implicit.
4. Only III is implicit.

Question 25: Which is the wrong term in the following series?

RSPH, UWUN, XAZT, AEEZ, DIKG

1. AEEZ
2. DIKG
3. RSPH
4. UWUN

Answer: DIKG

Question 26: The following are the criteria of recruitment for the post of Technical Assistants at an organization.

The candidate must:

A- have completed B.Tech in Electrical Engineering with more than 80% marks.

B- be willing to execute a bond of not leaving the job at least for two years.

C- have secured more than 85% marks in the written test and more than 70% marks in the Personal interview.

D- be willing to relocate to the head office located at New Delhi.

However, if the candidate fulfils all the above criteria except

E- at (B), but has at least two years work experience as Technical Assistant, his/her case is to be referred to the General Manager.

F- at (C), but has also completed M.tech in Electrical Engineering, his/her case is to be referred to the Head (Operations).

Preksha has completed B.tech and M.tech in Electrical Engineering with 82% marks in both the examinations. She has secured 72% marks in Personal Interview and 88% marks in written test.

She is willing to relocate to the head office at New Delhi. She is willing to execute a bond of not leaving the job for one year. She has got three years working experience as Technical Assistant.

1. The candidate would be recruited.
2. Her case is to be referred to the Head (Operations)
3. Her case is to be referred to the General Manager.
4. The candidate would not be recruited.

Answer : The candidate would not recruited.

Question 27: Six friends P, Q, R, S, T, and U are in a group.

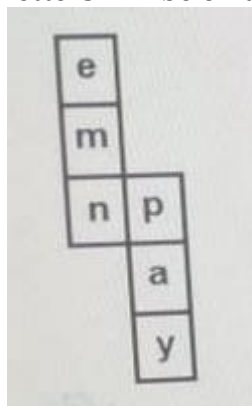
1. Q and R are shorter than U but heavier than P.
2. S is heavier than Q and taller than R.
3. T is shorter than S but taller than U.
4. U is heavier than S.
5. P is shorter than T but taller than U.

Who is fourth from the top when they are arranged in the descending order of their heights in the group?

1. U
2. S
3. P
4. T

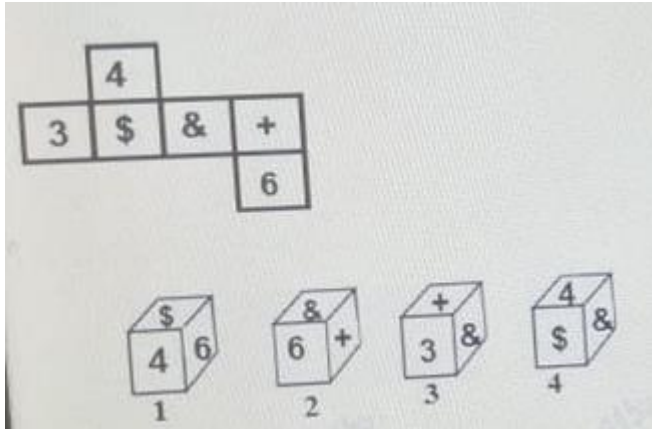
Answer - Option A

Question 28: A cube is made by following the given sheet, in the cube so formed, which pair of letters will be on the opposite faces.



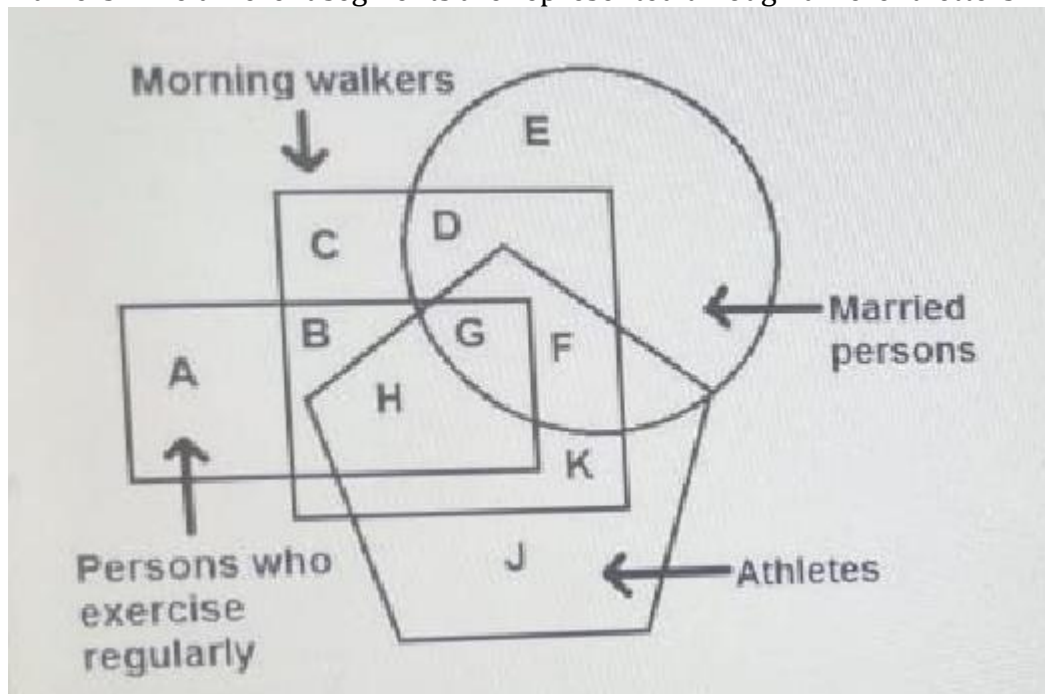
1. N & A
2. P & Y
3. M & Y
4. E & P

Question 29: Which of the following patterns of the boxes can be formed when the sheet given below is folded? (the numbers/symbols are shown to indicate the sides only)



1. Only 1, 2, and 4
2. Only 1 and 2
3. Only 2 and 4
4. Only 2, 3, and 4

Question 30 : In the following, the pentagon stands for 'athletes', the circle stands for 'married persons', the rectangle stands for 'person who exercises regularly', the square stands for 'morning walkers'. The different segments are represented through different letters inside the segment.



Which letter represents married athletes who are morning walkers also but do not exercise regularly?

1. K
2. D
3. H
4. F

Answer : F

Programming Logic

Q1. What will be the output of the following program?

```
import java.util.*;
public class public static void main (String[] args) {
{
    public static void main(String[] args)
    {
        ArrayList<Integer>TempArrayList=new ArrayList<Integer>();
        TempArrayList.add(30);
        TempArrayList.add(20);
        TempArrayList.add(10);
        TempArrayList.add(40);
        TempArrayList.add(50);
        Collections.sort(TempArrayList, Collections.reverseOrder());
        Collections.sort(TempArrayList, Collections.reverseOrder());
        System.out.println(TempArrayList);
    }
}
}
```

Type your answer in the given box.

Answer: [50, 40, 30, 20, 10]

Q2. Construct post order Transversal for the constructed tree with the given In-Order and Preorder Traversals:

In-Order: 9 7 10 6 8

Pre-Order: 6 7 9 10 8

- A. 9 10 7 8 6
- B. 9 7 6 10 8
- C. 8 9 10 7 6
- D. 9 8 10 7 6

Answer: Option A

Q3. What will be the output of the following program?

```
public class Main
{
    public static void main(String args[])
    {
        int x=10,y,z;
        z=y=x;
        y--x--;
        z--x;
        x--x-x--;
        System.out.println(x+"-"+y+"-"+z);
    }
}
```

Type your output in the given box.

Answer: 8-0-2

Q4. Consider the following variables declarations:

Float
num1;
Short
num2; Long
num3;

What is the data type of num1-num3/num2?

- A. None of the given options
- B. Float
- C. Double
- D. Short

Answer: Option B

Q5. The kind of software testing you can do when you have both the source code and the executable code in hand, is called as?

- A. Red Box Testing
- B. Black Box Testing
- C. White Box Testing

D. Blue Box Testing

Answer: Option C

Q6. Select the precise options for the below scenarios

Expression 1: `cout<<endl;`

Expression 2: `cout<<"\n"<<flush;`

- A. Second expression will not insert new line
- B. First expression will not insert new line
- C. Both expression will give same results
- D. Both expression will give different results

Answer: Option C

Q7. Spot the error in the given code. If there is no error, select the most appropriate option

```
#include<iostream>
using namespace std;
class Employee
{
    private:
    int UserId;
    public:
    Employee(): UserId(0) {}
    friend int displayUser(Employee);
};
int displayUser(Employee emp)
{
    emp.UserId +=12;
    return emp.UserId;
}
int main()
{
    Employee e;
    cout<<"Employee UserId:"<<displayUser(e)<<endl;
    return 0;
}
```

- A. Error at line 9
- B. Error at line 8
- C. Employee User Id:12
- D. Compilation error

Answer: Option C

Q8. float (*p)[5]

Here, p is _____

- A. Pointer to array of float
- B. Float
- C. Array of pointer
- D. Pointer

Answer: Option C

Q9. What is the function of rewind()?

- A. Setting file pointer at the beginning of line
- B. Setting file pointer anywhere in file
- C. Setting file pointer at the end of file
- D. Setting file pointer at the beginning of file

Answer: Option D

Q10. What will be the output of the following program?

```
abstract class Shape{
    public abstract void Disp();
}
class Triangle extends Shape{
    public final void Disp(){
        System.out.println("Triangle");
    }
}
class Rectangle extends Triangle{
    public void Disp(){
        System.out.println("It's a Rectangle");
    }
}
public class Main{
    public static void main(String[] args){
        Rectangle obj=new Rectangle();
        obj.Disp();
    }
}
```

- A. Run time error
- B. Triangle
- C. Compile Time error
- D. It's Rectangle

Answer: Option C.

Coding

Q1. FULLY AUTOMATIC VENDING MACHINE dispenses your cuppa on just the press of button. A vending machine can serve range of products as follows:

Coffee

1. Espresso Coffee
2. Cappuccino Coffee
3. Latte Coffee

Tea

1. Plain Tea
2. Assam Tea
3. Ginger Tea
4. Cardamom Tea
5. Masala Tea
6. Lemon Tea
7. Green Tea
8. Organic Darjeeling Tea

Soups

1. Hot and Sour Soup
2. Veg Corn Soup
3. Tomato Soup
4. Spicy Tomato Soup

Beverages

1. Hot Chocolate Drink
2. Badam Drink
3. Badam-Pista Drink

Write a program to take input for main menu & sub menu and display the name of sub menu selected in following format (enter the first letter to select main menu):

Welcome to CCD

Enjoy your <name of sub menu>

Example 1:

Input

c
1

Output

Welcome to CCD!

Enjoy your Espresso Coffee!

Example 2:

Input

t
9

Output

INVALID OPTION!

Solution in C++:

```
#include <bits/stdc++.h>
using namespace std;
int main()
{
    string c[3]={"Espresso Coffee", "Cappuccino Coffee","Latte Coffee"};
    string t[8]={"Plain Tea", "Assam Tea","Ginger Tea","Cardamom Tea","Masala Tea",
    "Lemon Tea","Green Tea", "Organic Darjeeling Tea"};
    string s[4]={"Hot and Sour Soup", "Veg Corn Soup","Tomato Soup","Spicy Tomato Soup"};
    string b[3]={"Hot Chocolate Drink", "Badam Drink","Badam Pista Drink"};
    char str[]="Welcome to CCD!\nEnjoy your ";
    char ch;
    int iteml
    cin>>ch>>item;
    if(ch!='C' && ch!='c' && ch!='T' && ch!='t' && ch!='S' && ch!='s' && ch!='B' && ch!='b')
    {
        cout<<"INVALID OPTION!";
    }
    else if(ch=='C' || ch=='c')
    {
        if(item<=0 || item>3)
            cout<<"INVALID OPTION!";
        else
            cout<<str<<c[item-1]<<"!";
    }
    else if(ch=='T' || ch=='t')
    {
        if(item<=0 || item>8)
            cout<<"INVALID OPTION!";
        else
            cout<<str<<t[item-1]<<"!";
    }
    else if(ch=='S' || ch=='s')
    {
        if(item<=0 || item>4)
            cout<<"INVALID OPTION!";
        else
            cout<<str<<s[item-1]<<"!";
    }
    else if(ch=='B' || ch=='b')
    {
        if(item<=0 || item>3)
            cout<<"INVALID OPTION!";
        else
            cout<<str<<b[item-1]<<"!";
    }
    return 0;
}
```

Q2. At an exam center, M number of students are allocated for one classroom as per the University Rules. The Examination staff has made sitting arrangements where the classroom contains N number of benches arranged in columns separated by a suitable distance occupying room space from the left to the right wall.

Given, M = 10 , N=5

Students from class "TY" can sit one after the other from the 1st bench starting at the left wall in the order of their Roll Numbers. And students from class "SY" are allowed to sit beside the students from class "TY" in the order of their Roll Numbers one after the other.

All students enter the classroom in a random order as input in String Array Students[].

Few students may remain absent. Assume the Roll Numbers are in continuous range with no drop, and Class Name("TY","SY") should be prefixed for every Roll Number. For example, you can pass Input with values like:

Students = ["TY01", "TY02", "SY01", "SY05", "SY04", "TY03", "SY02", "TY04", "SY03", "TY05"]

Display the sitting arrangement status at the exam time. "ABSENT" should be marked at the place of the Roll Numbers of missing or absent students.

Example 1:

Input Values(Input format should be same as below)

TY0

1

TY0

2

SY01

SY05

SY04

TY0

3

SY02

TY0

4

SY03

Output Values

[TY01][SY01]

[TY02][SY02]

[TY03][SY03]

[TY04][SY04]

[ABSENT][SY05]

]

Note: Output should be in the format given in above example. If input values are more than M, display INVALID INPUT.
If input value contains other than class SY or TY display INVALID INPUT.

Solution in C++:

```
#include <bits/stdc++.h>
using namespace std;
int main()
{
    string arr[5][2];
    for(int i=0;i<5;i++)
        for(int j=0;j<2;j++)
            arr[i][j]="ABSENT";
    string s;
    int r,c;
    while(cin>>s)
    {
        if(s.empty())
            break;
        if(s[1]!='Y' or s[2]!='0' or (s[3]-'0')>5)
        {
            cout<<"INVALID INPUT";
            return 0;
        }
        if(s[0]!='T' and s[0]!='S')
        {
            cout<<"INVALID INPUT";
            return 0;
        }
    }
}
```

SLOT 2 Analysis

Numerical Ability

Question 1: A particular distribution is represented by two data points. If the Range and Standard deviation of the distribution are R and S respectively, what is the relation between them?

1. $S = R/2$
2. $S = \sqrt{R}$
3. $S = 2R$
4. $S = R$

Answer: Option A

Question 2: Raju buys 3 goats and 2 sheep for Rs 11600. When he sells the goat at 20% profit and sheep at 10% loss, he earns a total profit of Rs 1000. The cost of one sheep is?

1. 2400
2. 4600
3. 2200
4. 2600

Question 3: If $\frac{\sqrt{7} + \sqrt{5}}{\sqrt{7} - \sqrt{5}} = a - b\sqrt{35}$, then the value of $a - 2b$ is?

1. 8
2. 7
3. 4
4. 5

Answer: Option C

Question 4: A hollow spherical ball of thickness of 1 cm and external radius of 5 cm is melted and then from solid so obtained, without any loss of material, 61 identical spherical balls are obtained. What is the diameter (in cm) of each ball?

1. 2
2. 1.5
3. 3
4. 1

Answer: Diameter of small spherical balls is 2 cm

Question 5: Four distribution P, Q, R, S are given below:

P = 4, 2, 1, 3, 3, 5, 6, 9, 8, 7

Q = 4, 5, 6, 7, 8, 9, 10, 11, 12, 13

R = 5, 6, 4, 5, 7, 5, 8, 1, 5, 2

S = 2, 6, 6, 11, 10, 9, 10, 8, 10, 7

What is the mean of the two modes in the body in the only binomial distribution among the above?

1. 8
2. 5
3. 3
4. 6

Answer 5: Option B

Question 6: What is the value of:

$$1.59 \times 1.59 + 8.46 \times 0.53 + 9 \times 0.47 \times 0.47?$$

1. 6.25
2. 9
3. 9.025
4. 4

Answer: Option B

Question 7: Raju lends Rs 3000 to Bharath and a certain sum to Charan at the same time of 6% per annum simple interest. If after 5 years, Raju altogether receives Rs 1650 as interest from Bharath and Charan, What is the sum lent to Charan?

1. **Rs 2500**
2. Rs 3300
3. Rs 2750
4. Rs 3250

Answer 7: Option A

Question 8: In how many ways X give Rs 500 to Y using only Rs 100 and Rs 20 notes, with the condition that she has only 16 notes of Rs 20, and being asked to use the notes of both the denominations?

1. 3
2. 2
3. 6
4. 4

Answer: Option A

Question 9: A train starting from a station X was to arrive at a station Y at 6.06 P.M. It could travel at 62.5% of its usual speed and reach Y at 7 P.M. At what time did it start from X?

1. 4:44 PM
2. 4:24 PM
3. 4:36 PM

4. 4:56 PM

Answer : Option C

Question 10: The ratio of incomes of P and Q is 7: 5 and the ratio of their expenditure is 4: 3. If at the end of year, P and Q save Rs 3000 and Rs 2000 respectively, what is Q's income?

1. 4000
2. 4500
3. 7000
4. 5000

Answer: Option D

Question 11: A retailer has fixed the List Price of an article at 20% above the cost price. If he offers a discount of Rs 2 for a purchase of Rs 40, what is his gain or loss percentage?

1. 12% loss
2. 10% gain
3. 14% gain
4. 8% loss

Answer : Option C

Question 12: The median of the following data is:

Class	0-10	10-20	20-30	30-40	40-50
Frequency	10	15	12	15	8

1. 24.366
2. 24.266
3. 24.123
4. 24.166

Answer 12: Option D

Question 13: The capacity of three containers X, Y, and Z are 1, 2, and 4 liters respectively. Initially X is empty, while Y and Z are full of water and milk respectively. X is filled from Y, Y is replenished from Z and X is emptied into Z. If this process is repeated once more, than what will be the ratio of milk in Y to water in Z?

1. 4: 5
2. 4: 3
3. 1: 1
4. 3: 5

Answer 13: Option D

Question 14: Four men and two women can do a piece of work together in one day. If a woman is twice as efficient as a man, in how many days can a woman working alone do the work?

1. 2
2. 6
3. 4
4. 8

Answer: Option C

Question 15: If 25% of a number is equal to the three - fifths of another number, what will be the ratio of the first number?

1. 12:5
2. 15:12
3. 5:12
4. 12:15

Answer: Option C

Question 16: A sales representative commission is 6% on all sales up to Rs 15,000 and 5% on all the sales exceeding this. He remits Rs 47,350 to his company after deducting his commission. What was the total sale?

1. 49000
2. 50500
3. 50000
4. 47500

Answer 16: Option C

Question 17: Two engines having different speeds are to run on parallel track with the starting point of slower being ahead of the faster by 5km and 6km in two separate cases. What is the ratio between the distance that the faster train needs to travel in these cases to catch up the slower one?

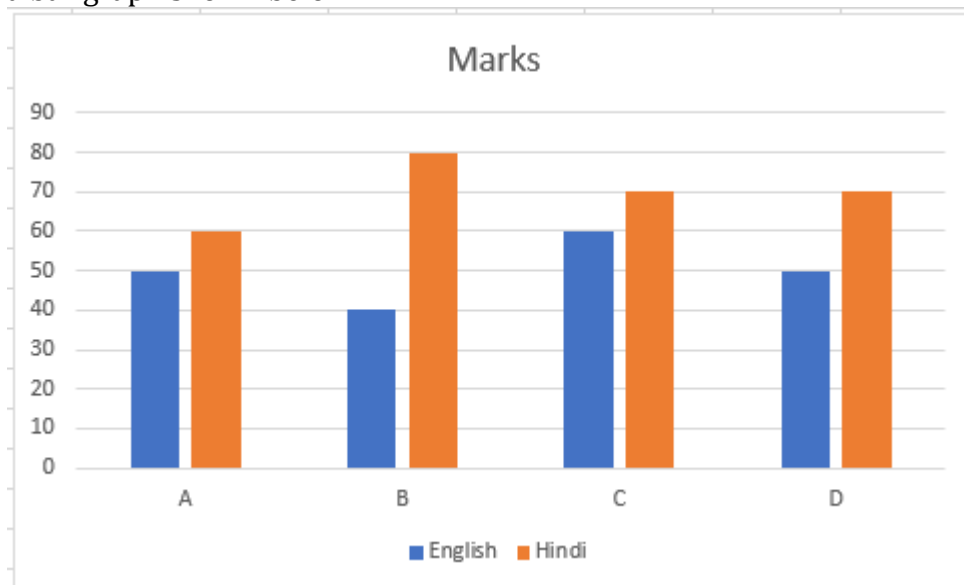
1. 2:3
2. 5:12
3. 5:6
4. 3:4

Question 18: For a grouped frequency distribution having eight classes, the upper class boundaries of the lowest and the highest classes are 10 and 66 respectively. What is the lower class boundary of the highest class?

1. 60
2. 57
3. 58

4. 59

Question 19: The Average marks (out of 100) scored by the students of four towns A, B, C and D of a district in English and Hindi at a secondary level examination held in 2019 are presented through a bar graph shown below.



How much percentage (correct upto 2 decimal places) are the average marks in Hindi above that of the highest marks among the towns in english?

1. 20.67
2. 14.33
3. 18.33
4. 16.67

Answer 19: Option D

Question 20: The average score in mathematics of a class increases by 10% if the total marks secured by a number of students who form 20% of the class strength and whose average score is 48 is not included in the calculation . What is the average score?

1. 80
2. 75
3. 60
4. 90

Question 21: What is the simplified value of

$$(7^2 + 24^2) \div \left[20^2 - \frac{1}{2}(5^2 - 1) + 10 \{ (0.3)^2 + (0.1)^2 \} - 2 \times 7 \right]^2$$

1. $\frac{1}{225}$
2. $\frac{1}{5}$
3. $\frac{1}{125}$
4. $\frac{1}{25}$

Answer: Option A

Question 22: Two gear which work in tandem have 16 and 20 teeth respectively. If the former turns 15 times in 8 seconds, how many turns will the latter take in one-third of a minute?

1. $49\frac{1}{4}$
2. $49\frac{1}{7}$
3. $49\frac{1}{2}$
4. $51\frac{3}{7}$

Question 23: What sum (in Rs.) given on loan for two years with scheme of return on the basis of compound interest at a yearly rate of 10% will correspond to repayment through monthly installments of Rs. 9075?

1. 189000
2. 198000
3. 180000
4. 165000

Question 24: The sum of two numbers is 2604 and their hcf is 124. Which is smaller between them if their difference is the least possible?

1. 11146
2. 496
3. 1240
4. 620

Answer : Option C

Question 25: What will be the percentage increase in the area of a square, if it's side is increased by 20%?

1. 20%
2. 44%
3. 36%
4. 40%

Answer : Option B

Question 26: Four teams P, Q, R, S played round robin league (each playing against each other) matches, and the points table is as under:

Team	Number of Matches played	Number won	Number lost	Number Drawn	Points Scored
P	3	2	0	1	7
Q	3	2	1	0	6
R	3	0	1	0	2

S	3	0	2	1	1
---	---	---	---	---	---

If A is the overall average points scored by four teams per match and B is the points scored by Q if the number of matches it had won, lost and drawn be the same, then what is the difference (correct to two decimal places) between A and B?

1. 1.33
2. 2.67
3. 1.67
4. 0.33

Answer: Option B

Verbal Ability

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

Digitalization is uplifting our country towards advancement _____ (1)_____. With digitalization government services are reaching citizens in the remotest of locations. _____ (2)_____. Even pregnant working womens and parents are receiving informative messages on health through the Kilkari mobile application.

Option

1. It is helping to fill gaps which crept up due to lack of physical infrastructure.
 2. For instance, farmers are receiving weather updates on their phones, which is helping them to plan their agricultural activities.
 3. Does digitalization and technology, are playing a crucial role in ensuring that services reach all citizens
- 1(A), (2)C
 - 1(C), (2)A
 - **1(A), (2)B**
 - 1(B), (2)C

Answer: C

Question 2: In the part of the sentence below may contain an error, Identify the error. If there is no error choose "No error"

Since sunrise to sunset/ my grandmother would sit by her wheels, spinning and reciting prayers.

Options

1. **since sunrise to sunset**
2. my grandmother would sit by her wheel,
3. no error
4. spinning and reciting prayers

Answer: A (from sunrise to sunset)

Question 3: Read the passage given below

Terming India's winning of a non-permanent seat of the UN Security Council one of its "best performances" ever, the Union government said the majority of votes it received in the General Assembly demonstrated the "goodwill" the country enjoyed. India will promote multilateral solutions for the COVID-19 crisis and enhance global action against terrorism, among its priorities, during the two-year term beginning January 2021, it said. In the election decided overnight on Wednesday, India secured 184 of the 192 votes, far in excess of the 128, or two-thirds minimum, it needed to be confirmed.

"The strong support by almost the entire U.N. membership for India's election demonstrates the goodwill that India enjoys in the U.N. and the confidence that the international community has reposed in India's capability to contribute to the work of the Council," said MEA Secretary Vikas Swarup on Thursday.

India's term on the 15-member Council will be its eighth. Briefing the media about the win, Mr. Swarup said India would be the "voice for all those who are not represented in the Council" during its tenure. He also thanked the government of Afghanistan, which had allowed India to contest unopposed by giving up its bid for the seat in favour of India in 2013.

On the basis of your understanding the passage and answer the questions below by choosing the best option.

India's overwhelming success at the recent General Assembly elections of the UN security council for a non-permanent seat was a result of the tremendous goodwill of a number of nations.

Which of the following sentences does not represent the above thought?

1. The strong support by almost the entire UN membership for India's election demonstrates the Goodwill that India enjoys in the UN.
2. The union government said the majority of votes it received in a general assembly demonstrated the goodwill the country enjoyed.
3. The confidence that the international community has reposed in India's capability to contribute to the work of the council.
4. Briefing the media about the win, Mr swarup said India would be the "voice for all those who are not represented in the council" during its tenure.

Answer: The confidence that the international community has reposed in India's capability to contribute to the work of the council.

Question 4: Read the passage given below

Terming India's winning of a non-permanent seat of the UN Security Council one of its "best performances" ever, the Union government said the majority of votes it received in the General Assembly demonstrated the "goodwill" the country enjoyed. India will promote multilateral solutions for the COVID-19 crisis and enhance global action against terrorism, among its priorities, during the two-year term beginning January 2021, it said. In the election decided overnight on Wednesday, India secured 184 of the 192 votes, far in excess of the 128, or two-thirds minimum, it needed to be confirmed.

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its tenure. He also thanked the government of Afghanistan, which had allowed India to contest unopposed by giving up its bid for the seat in favour of India in 2013.

On the basis of your understanding the passage and answer the questions below by choosing the best option.

What was the total amount of votes which India received in the election of non-permanent seat of the U.N Security Council

1. Two-thirds of 184
2. 192
3. 128
4. 184

Answer: 184

Question 5: Read the passage given below

Terming India's winning of a non-permanent seat of the UN Security Council one of its "best performances" ever, the Union government said the majority of votes it received in the General Assembly demonstrated the "goodwill" the country enjoyed. India will promote multilateral solutions for the COVID-19 crisis and enhance global action against terrorism, among its priorities, during the two-year term beginning January 2021, it said. In the election decided overnight on Wednesday, India secured 184 of the 192 votes, far in excess of the 128, or two-thirds minimum, it needed to be confirmed.

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On the basis of your understanding the passage and answer the questions below by choosing the best option.

What will be India's priorities during its two year term in the Security Council?

1. To be a voice for those represented at the Security Council
2. To further strengthen the confidence reposed in its abilities by the international community.
3. To be the ground for the Government of Afghanistan to make way for India to stand unopposed in 2013.
4. To promote multilateral solutions for Covid-19 crisis and enhance action against global terrorism.

Answer: To promote multilateral solutions for Covid-19 crisis and enhance action against global terrorism.

Question 6: Read the passage given below

Terming India's winning of a non-permanent seat of the UN Security Council one of its "best performances" ever, the Union government said the majority of votes it received in the General Assembly demonstrated the "goodwill" the country enjoyed. India will promote multilateral solutions for the COVID-19 crisis and enhance global action against terrorism, among its priorities,

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On the basis of your understanding the passage and answer the questions below by choosing the best option.

According to the MEA secretary, Mr Vikas swarup, why does India need to thank Afghanistan for their success?

1. Afghanistan is India's biggest supporter in the UN security Council
2. Afghanistan camping in favour of India
3. Afghanistan voted for India so India could win. .
4. Afghanistan give up its bid for a seat in India has favour in 2013

Answer: Afghanistan give up its bid for a seat in India has favour in 2013

Question 7: Fill in the blanks with the most appropriate pair of words from the options given below.

There are many jobs where workers deal with _____ situations Therefore, companies must ensure the proper safety _____are in place to protect the workers from any injury.

1. hazardous/gears
2. hazardous/measures
3. hazards/measures
4. hazarding/precaution.

Answer: Hazardous and Measures

Question 8: For the four sentences S1 to S4 in the paragraph below, sentences S1 and S4 are given. From the options P Q and R choose appropriate sentences from S2 and S3 appropriately.

S1: The past is not dead and static, it is alive and dynamic and is involved in determining the quality of our present between and the prospects of our future.

S2:

S3:

S4: I, therefore pledge myself to loyalty of our past culture from wheresoever it may have come and by whomsoever it may have been contributing(Dr Radhakrishnan)

P: The process of the constant renewal is, indeed the process of growth of national culture and national character

Q: It is the business of education, as I see it to minister this constant renewal and I may be forgiven the presumption that me my choice to the high office has mainly if not entirely account of my long association with the education of my people

R: The work on one's self is to follow the urge towards more development as a free person and under self imposed discipline, which alone can render the development possible.

Option

1. RQ
2. QR
3. PQ
4. **PR**

Question 9: Did you remember _____ seats for the theatre tomorrow?

Yes, I have the tickets here. Do you mind _____ it with you? I fear I may lose them.

1. booking/ to keep
2. To book/ keeping
3. To have booked/ keeping
4. booked/ to keep

Answer: Option A

Question 10: Read the passage and answer the question

Rosio Sanchez, a Mexican American chef who lives in Copenhagen, makes the best tortillas in Scandinavia. That, she admits, isn't necessarily saying much -- like laying claim to the best pizza in Indonesia, "It was so much worse" she said, describing the state of Mexican food when she arrived in 2010 to work as the pastry chef in the celebrated restaurant Noma. "Imagine the worst Tex-Mex food in America and imagine that being passed on like a game of telephone, by people who have no idea what real Mexican food is" that is beginning to change, and not only in in Copenhagen, Where Mrs Sanchez has opened a Taqueria with freshly ground hand pressed corn tortillas.

It goes far beyond tacos and tortillas, though Mexican cuisine has made the leap to the global stage of fine dining.

Chefs are making house-cured chorizo in Toronto, and Michelin-starred chilaquiles at Punto MX in Madrid. Last week, the Houston chef Hugo Ortega, who began his working life as a shoeshine boy in Mexico City, received the James Beard Foundation's award for best chef in his region: a first for a Mexico-born chef.

"Everywhere, I see a new respect for Mexican culture," said Martha Ortiz, a celebrity chef in Mexico who is opening a warmly elegant restaurant, Ella Canta, in the InterContinental London Park Lane hotel this summer. Ten years ago, when a taco in London might easily have contained canned baked beans, the idea of a Mexican restaurant in a posh hotel would have been mystifying.

"Our traditional food has always had a high value at home, and there is a lot of respect for the women who produce it," she said. "But for people internationally to be excited about it and willing to pay for it? That is new."

Which of the following is NOT a Mexican food item?

1. Chorizo
2. Tortillas
3. Chilaquiles
4. Taqueria

Answer: D Taqueria

Question 11: Read the passage and answer the question

Rosio Sanchez, a Mexican American chef who lives in Copenhagen, makes the best tortillas in Scandinavia. That, she admits, isn't necessarily saying much -- like laying claim to the best pizza in Indonesia, "It was so much worse" she said, describing the state of Mexican food when she arrived in 2010 to work as the pastry chef in the celebrated restaurant Noma. "Imagine the worst Tex-Mex food in America and imagine that being passed on like a game of telephone, by people who have no idea what real Mexican food is" that is beginning to change, and not only in Copenhagen, Where Mrs Sanchez has opened a Taqueria with freshly ground hand pressed corn tortillas. It goes far beyond tacos and tortillas, though Mexican cuisine has made the leap to the global stage of fine dining.

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"Our traditional food has always had a high value at home, and there is a lot of respect for the women who produce it," she said. "But for people internationally to be excited about it and willing to pay for it? That is new."

What is the main idea of the passage?

1. Mexican restaurants are opening in different countries
2. There is more to Mexican food than just tacos and tortillas
3. There are celebrity chefs in Mexican cuisine now-a-days
4. Mexican food is been globally appreciated now

Answer: Mexican food is been globally appreciated now

Question 12: You are going to read a text about motivation. Some sentences are missing from the text. Choose from the list (A-C) the most appropriate sentence. There is an extra sentence you need not to use.

Motivation is the desire to act in the service of a goal. It is the crucial element in setting and attaining one's objectives--- and research shows that people can have many sources, and often people have multiple motives for engaging in any behaviour. (1)_____ Motivation can also be intrinsic- it is a desire to improve at a certain activity. (2)_____

A- Everyone feels motivated or demotivated of willpower at times.

B- Intrinsic motivation tends to push people more forcefully, and the accomplishments are more fulfilling.

C- Motivation might be extrinsic, whereby a person is inspired by outside forces-- other peoples or events that transpire.

1. 1(B), 2(A)
2. **1(C), 2(B)**
3. 1(A), 2(B)
4. 1(A), 2(C)

Answer: B

Question 13: Self-styled visionaries and people particularly fond of their pajamas have for decades been arguing that a lot of work done in large shared offices could be better done at home. With Covid-19 their (1)_____ were put to the test in a huge if not randomized trial. The preliminary results are now in. Yes, a lot of work can be done at home; and what is more, many people seem to (2)_____ doing it there.

Blank 1) A- mindsets B- ideas C- philosophies D- designs

Blank 2) A- desire B- select C-prove D-prefer

1. 1(D), 2(C)
2. 1(C), 2(A)
3. **1(B), 2(D)**
4. 1(C), 2(A)

Answer: C

Question 14: Fill in the blanks with the most appropriate pair of words from the options given below.

The Indian Air Force was_____ established on 8th October 1932 as a part of an auxiliary air force of the British Empire and was known as the Royal Air Force. It was only after India became a republic in 1950 that the name _____ to Indian Air Force.

1. Official/ has been changed
2. Officious/ had been changed
3. Judiciously/ has been changed
4. **officially/ was changed**

Answer: D

Question 15: Which of the following sentences does NOT use formal language?

1. In a short time, we will serve refreshments.
2. Welcome aboard! To operate your seat belt, insert the metal tab into the buckle, and pull tight.
3. This is the final boarding call for passengers Neha and Mohit Sahini booked on flight 327A to Kansas City. Please proceed to Gate 3 immediately.
4. We'd like to thank you folks for flying with us today.

Question 16: One part of the sentence below may contain an error. Identify the part. If there is error, choose 'No Error'.

There is no doubt / that this is the most difficult but disrupting year / that many of us will ever have experienced

1. **that this is the most difficult but disrupting year**
2. No error
3. that many of us will ever have experienced
4. There is no doubt

Answer - Option A

Question 17: One part of the sentence below may contain an error. Identify the part. If there is error, choose 'No Error'.

When he felt exhausted, he placed his little baby brother / softly under a tree / and falling on knees, uttered a prayer

1. No error
2. and falling on knees, uttered a prayer
3. softly under a tree
4. **When he felt exhausted, he placed his little baby brother**

Answer - Option D

Question 18: 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.

1. I went to fair and got scared as i was lost.
2. I am scared after i am lost in the fair
3. **I got lost at the fair and was scared**
4. I am lost at the fair so i am too scared

Answer - Option C.

Question 19: You are going to read a text about skills that the workforce of the future will need. Some sentences are incomplete. Choose the sentences from A, B and C to fill the blanks. There is one extra sentence that you do not need to use.

As technological innovations continue to change the workplace, we are seeing more industries entrust their operations to new gadgets, software and programs that can transform the workplace. _____. With more industries starting to embrace RPA software, RPA robots would be able to handle mundane, repetitive tasks like some of the clerical work normally dealt with by administrative staff, thereby lowering running costs and increasing productivity. There is a common concern that companies employing technology like RPA are only interested in increasing their profit margins through cost reduction, and that this trend would eventually leave most of the workforce jobless. _____.

A) By equipping our future generation of workers with such business skills, we can ensure that when automation fully takes over, our workers will have the survival skills to become better employees and leaders of the future.

B) However, while it is true that the menial tasks of administrative and clerical jobs are likely to be taken over by automation, the demands on the average office worker will evolve to include more creative work, managerial duties and communication with clients and suppliers.

C) One such technology that has the potential to revolutionise workplaces in the coming years is RPA (Robotic Process Automation).

1. 1-A , 2-B
2. 1-A , 2-C
3. 1-C , 2-B
4. 1-B , 2-A

Answer - Option C

Question 20: For the four sentences (S1 - S4) paragraph below, sentences S1 and S4 are given. From the options P, Q, and R. Choose the appropriate sentences in the sentences.

S1: The 'Palace of the Wind' was built for the female residents of Jaipur's City Palace.

S2:

S3:

S4: The vented, ornate windows and balconies provide passive-cooling, keeping the interior more comfortable than the sunbaked streets, all without using any mechanical air conditioning devices.

P: And they could do so in relative comfort as its architecture allowed cool air to pass through.

Q: Traditionally, the women of Jaipur wore scarves over their faces when in public.

R: It gave the women of City Palace a place to watch the activities on the streets of the city without having to wear veils and scarves

1. RP
2. QR
3. PR
4. PQ

Answer - RP

Question 21: Which of the following sentences does NOT use informal language?

1. In a short time, we will serve refreshments
2. Welcome aboard! To operate your seat belt, insert the metal tab into the buckle and pull tight
3. This is the final boarding call for passengers Neha and Mohit Saini booked on flight 372A to Kansas City
4. We'd like to thank you folks for flying with us today.

Answer - A

Question 22: Fill in the blanks:

Melting glaciers add to rising sea levels, which in turn increases coastal _____ and elevates storm surge as warming air and ocean temperatures create more frequent and intense coastal storms like hurricanes and typhoons. Specifically, the Greenland and Antarctic ice sheets are the largest _____ of global sea level rise. Right now, the Greenland ice sheet is disappearing four times faster than in 2003 and already contributes 20% of current sea level rise.

Blank 1: A. erosion B. eroded C. corrosion D. corrode

Blank 2: A. destruction B. contribution C. contributors D. responsibility

1. 1. B 2. D
2. 1. D 2. B
3. 1. C 2. A
4. 1. A 2. C

Answer - Option D.

Logical Ability

Question:- Which is the wrong term in the following series ?

Jkl,lin,mho,ofq,per,rds,sbu

A-sbu

B-ofq

C-per

D-rds

Answer:-

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

[A] MASON- AMNOS

[B] PARTY - APRYT

[C] FAULT - AFTLU

[D] LODGE- DOLEG

[E] CARGO - ACOGS

1. B and D
2. C and D
3. D and E
4. A and C

Answer:Option D

Question:- A statement is followed by three assumptions numbered I,II and III consider and decide which of the given assumptions is/are implicit in the statement

Statement:

A visit of school children to Zoo to expire their knowledge about Zoo animals.

Assumptions:-

I. There is no full of freedom for animals in Zoo.

II. Children are likely to learn from their interaction with new environment.

A- Neither I nor II is implicit

B- Only I is implicit

C- Both I and II are implicit

D- Only II is implicit.

Solution:-

Question:- Eight persons P,Q,R,S,T,U,V and W are sitting around the circular table facing the center. U is sitting between S and W. P is facing W and T is second to the left of W.S is the third to the right of Q,Who is second to the right of V.

Who is sitting between R and V ?

A- Q

B- S

C- T

D- P

Solution:-

Question:- 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.

In a row, Vijay is sitting exactly in the middle of Ambar and Sonam. What is Vijay's position from the right end of the row ?

Statement:-

(i) Vijay is 16th from the left and is separated by 4 persons from Amber who is his left and if Amber interchanges his position with Sonam, he becomes 15th from the right.

(ii) Vijay is 16th from the left and if Sonam changes her position with Amber, she becomes 11th from the left.

A- Both the statements I and II are not sufficient

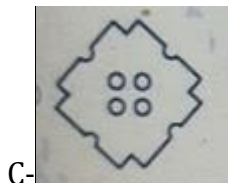
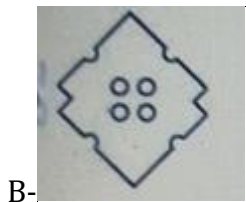
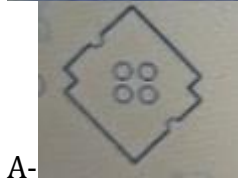
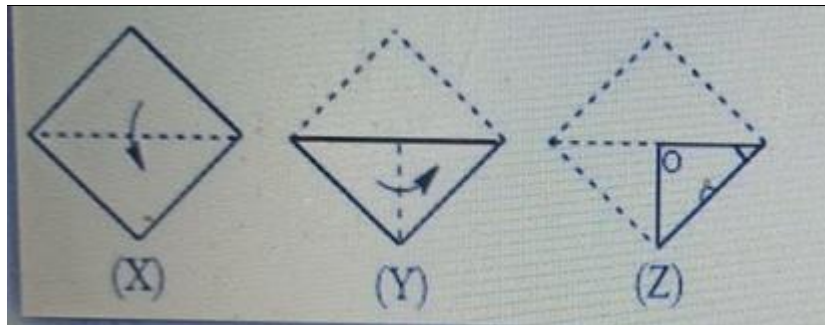
B- Either statements I alone or statement II alone is sufficient.

C- Statement II alone is sufficient.

D- Statement I alone is sufficient.

Solution:-

Question:- The Sequence of folding a piece of square paper and the manner in which the folded paper has been cut is shown in the figures marked X,Y,and Z. How would the paper look when unfolded ?



Solution:-

Question:- There are five persons in a group Raju, Sanjay, Deepak, Suresh and Mukesh.

Deepak is elder to Raju, but not as tall as Suresh. Suresh is younger to Sanjay and taller than Mukesh and Raju. Sanjay is taller than Mukesh but not younger than Raju. Mukesh is elder to Sanjay but is the shortest of all the friends.

Who among the following is the eldest ?

A-Suresh

B-Deepak

C-Either Deepak or Mukesh

D-Sanjay

Solution:-

Question:- There are 160 Students in a college hostel which contributes to three news papers - Hindi,Tamil and English. 15 of them do not read any newspaper. The number of Students reading Hindi paper is half the number of those reading English paper and one-third of the number of those reading Tamil paper. 4 students read all the three newspapers and 8 read only two newspapers- Hindi and Tamil . 5 students read Hindi and English newspapers only. Not the Tamil paper. The number of students who study Tamil and English newspaper is twice the number of students who study Hindi and English newspapers.

How many students read Tamil newspapers only ?

A-54

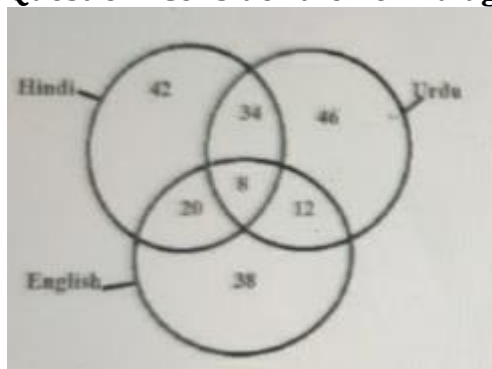
B-64

C-37

D-13

Solution:-

Question:-Consider the Venn diagram given below:



The numbers in the Venn diagram indicates the number of persons who can speak different languages in a city. The diagram is drawn after surveying 200 persons. In a population of 15,000.How many people can be expected to speak in Hindi language only ?

A- 2290

B- 3150

C-3232

D-4320

Solution:-

Question:- A statement is followed by three arguments numbered I,II and III. Decide which of the arguments is/are strong (important and directly related to the question) and which is/ are weak (not important and not related to the central message of the question).

Statements:-

Should the industrial factories located in crowded cities be shifted to the city outskirts ?

Arguments:-

(i) No. The shift would cause inconvenience to the industrial workers as they would have to travel a long distance every day.

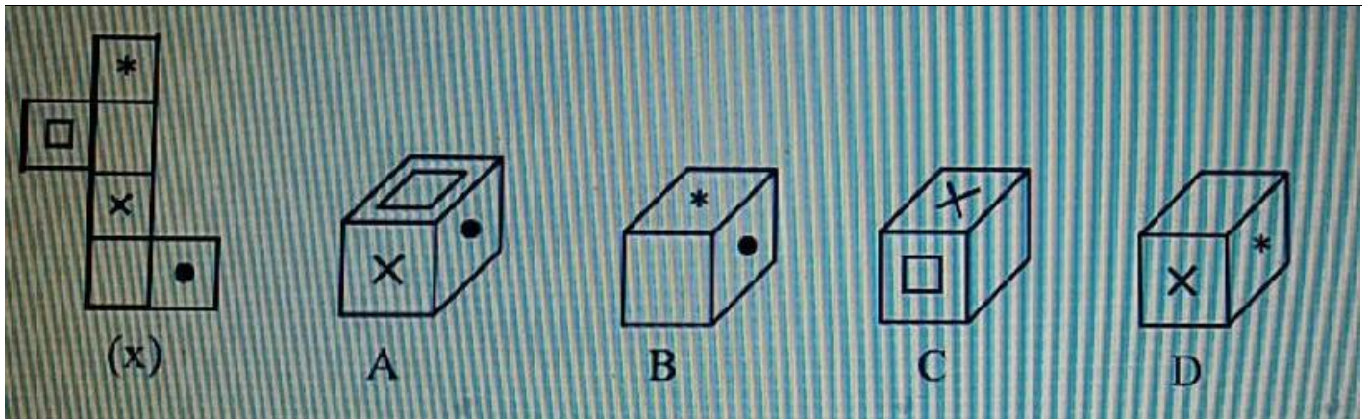
(ii) Yes.The factories are responsible for significantly adding to the pollution level in the city causing meance to the city living.

(iii). No Moving cut of the city would require huge expenditure from the factory owners to which they may not agree.

- A- Only argument II is strong
- B- All of I, II and III are strong.
- C- Only argument I is strong
- D- Only I and II are strong.

Solution:-

Question:-The Figure marked 'X' lying flat with patterns on it is folded to form a box such that patterns/blanks show on the faces of the box ..Four possible 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.



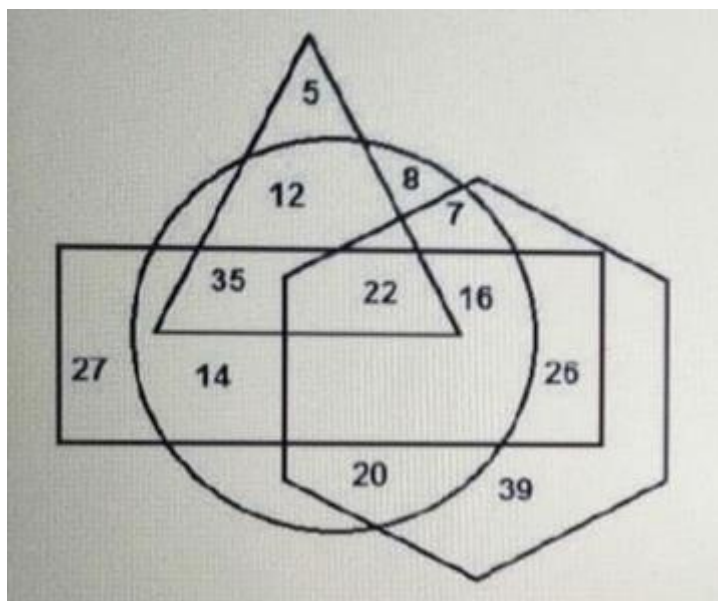
Solution:-

Question:- In a coded from A+B means A is the daughter of B; A x B means A is the brother of B; A/B means A is the husband of B and A-B means A is the sister of B. Which of the following Shows that P is the niece of T ?

- A- (T/ S-R+ Q x P)
- B- (P+ Q x R- S+T)
- C-(P x Q-R/S+T)
- D-(T- S+R x Q/P)

Solution:-

Question:- In the following diagram, the triangle stands for 'males' the circle stand for 'doctor', the rectangle stands for 'government employed', the hexagon stands for 'corona warriors'. The number in different segments show the number of person for that segment.



How many government employed doctors are either corona warriors or males or both ?

- A-73
- B-38
- C-56
- D-22

Solution:-

Question:- A statement is followed by three courses of action numbers I, II and III. Assuming everything in the statements 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 follows for pursuing. Statements:

In one of the worst road accidents ,15 people died when a roadways bus carrying them colished on to a running truck.

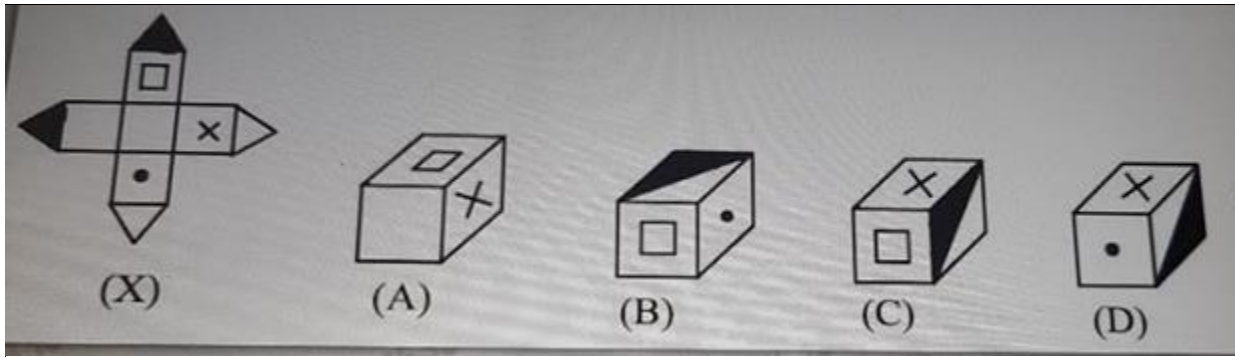
Courses of Action:

- (i) The bus driver should immediately be suspended without any queries.
- (ii) The government should make markings to all accident -prone areas.
- (iii) The department of roadways should hold an enquiry at every level and try to punish those who are responsible for negligence , in the court .

- A- Only I follow for pursuing
- B- Both I and II follow for pursuing
- C- Both II and III follow for pursuing
- D- Only II follow for pursuing

Solution:-

Question:- The Figure marked 'X' is folded to form a box.Four possible 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.



- A-(A and C only)
 B-(A and D only)
 C-(C and D only)
 D-(B and D only)

Solution:-

Question:- The Two figures on the left of the sign "::" are related in a certain way. The same relationship holds goods 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

Question:- In a certain code, if

'A+B' means 'A is the wife of B'

'A x B' means 'A is the son of B'

'A/B' means 'A is the brother of B'. then

What is the meaning of the expression 'H / k x S + M' ?

- A- M is son of H
 B- K is brother of M
 C- H is son of M
 D-H is brother of M

Solution:-

Question:- 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.

In a row, Vijay is sitting exactly in the middle of Ambar and Sonam. What is Vijay's position from the right end of the row ?

Statement:-

- (i) Vijay is 16th from the left and is separated by 4 person from Ambar who is to his left and if Amber interchanges his position with Sonam, he becomes 15th from the right.
 (ii) Vijay is 16th from the left and if Sonam changes her position with Amber, she becomes 11th from the left.

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

Programming Logic

The Programming Logic was completely repeated from Slot 1 of today, all the questions were same only