

ECGC PO Memory Based

Directions (1-4): Study the following information carefully to answer the given questions.

A word and number arrangement machine when given an input line of words and numbers rearranges them following a particular rule in each step. The following is an illustration of input and rearrangement.

Input: few 31 guide star 22 47 world 11 62 music 35

Step I: 11 few 31 guide star 22 47 world 62 35 music

Step II: 11 31 few guide star 22 47 62 35 world music

Step III: 11 31 47 few star 22 62 35 guide world music

Step IV: 11 31 47 22 few 62 35 star guide world music

Step V: 11 31 47 22 35 62 few star guide world music

And step V is the last step of the above input. As per the rules followed in the above step, find out the appropriate step for the given output.

Input: asset 17 48 good back 23 down 61 25 source 16

Q1. Which element is exactly between the third element from left end and fifth element from right end in step IV?

- (a) 48
- (b) back
- (c) asset
- (d) good
- (e) 16

Q2. In step II, '17' is related to 'back' and 'asset' is related to '61'. In the same way 'down' is related to?

- (a) 25
- (b) good
- (c) 23
- (d) source
- (e) 48

Q3. In which of the following step the elements "48 25 down" found in the same order?

- (a) Step I
 - (b) Step IV
 - (c) Step III
 - (d) Step II
 - (e) There is no such step
-

Q4. In step II, what is the sum of fourth element from left end and third element from right end?

- (a) 79
- (b) 88
- (c) 37
- (d) 80
- (e) 64

Directions (5-8): Read the following information carefully and answer the questions given below:

There are eight persons i.e. A, B, C, D, E, F, H and G who all are sitting around a circular table. They all were born on the same date of different months of a year starting from January to August. Some of them face inside some of them face outside.

C sits third to the right of G, who was born in the month having more than 30 days. Both C and G faces opposite direction to each other. The one who was born in May sits third to the left of C. Only two persons sit between the one who was born in May and the one who was born in March. C was not born in the month having 31 days. H sits third to the right of the one who was born in March. A sits second to the right of H and opposite to the one who was born in June. H was born in the month immediately after the month in which G was born. H and A both faces the same direction. H was not born in the month having 28 days. The one who was born in August sits third to the right of E, who was born in the month immediately after the month in which B was born. B was not born in February. E sits second to the left of the one who was born in January, who sits third to the left of F. The one who was born in February faces outside. E was born one of the months after C.

Q5. In which of the following month B was born?

- (a) March
- (b) April
- (c) June
- (d) January
- (e) None of these

Q6. Who among the following was born immediately before C?

- (a) E
- (b) A
- (c) G
- (d) D
- (e) None of these

Q7. How many persons were born before F?

- (a) More than four
 - (b) Two
 - (c) Three
 - (d) No one
 - (e) None of these
-

Q8. How many persons face inside?

- (a) Two
- (b) Three
- (c) Four
- (d) Five
- (e) None of these

Directions (9-10): Study the following alphanumeric series carefully and answer the questions given below:

L 9 8 * S A & 2 T 9 G & V 5 H % @ Q E # 9 1 © E ∞ 2 \$ U 7 Y 4 * O 7

STEP I- The alphabets which is immediate followed by a symbol and immediately preceded by a number are arranged in between % and @ in the alphabetical order.

STEP II- All the numbers, letters and symbols which appears more than once are eliminated.

STEP III- All the numbers are arranged in the end of the series (after O) in ascending order after One is added in odd number and one is subtracted in even number.

(STEP II is applied after STEP I and STEP III is applied after STEP II)

Q9. Which of the following element is 14th from the left of the element which is 5th from the right in step I?

- (a) E
- (b) @
- (c) H
- (d) %
- (e) None of these

Q10. Which of the following element is 10th from the right of the element which is 4th from the left in step II?

- (a) @
- (b) 1
- (c) Q
- (d) #
- (e) None of these

Directions (11-13): In each of the questions below are given some statements followed by two conclusions numbered I and II. You have to take the given statements to be true even if they seem to be at variance with commonly known facts. Read all the conclusions and then decide which of the given conclusions does not logically follows from the given statements, disregarding commonly known facts. Give answer

Q11. Statement- All Deep are Shallow. Only a few Shallow are High. No High is Long.

Conclusion: (a) Some Shallow are not Long.

- (b) No Long is High.
 - (c) Some Deep are High is a possibility.
 - (d) Some Shallow are Deep.
 - (e) All Shallow are Long.
-

Q12. Statement: Some Hard are Tough. Some Tough are Metal. All Metal are Sword. Some Sword are Iron.

Conclusion: (a) Some Hard are Metal is a possibility.

(b) Some Sword are Tough.

(c) Some Iron are Hard.

(d) Some Iron can be Tough.

(e) Some Metal are Tough.

Q13. Statement: No Singer is Actor. Some Actor are Dancer. All Dancer are Doctor. Some Doctor are Player.

Conclusion: (a) Some Dancer are not Singer.

(b) Some Dancer can be Player.

(c) Some Actor are Doctor.

(d) All Actor are Player.

(e) Some Doctor are not Singer

Directions (14): In each of the questions below are given some statements followed by some Conclusions. You have to take the given statements to be true even, if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.

Q14. Statements:

No March are April.

Only a few April is June.

All June are July.

Conclusions:

I. Some April is not June.

II. All March is July is a possibility

III. Some July is April is a possibility

(a) Only I follows

(b) Only II follows

(c) Only III follows

(d) Only I and II follow

(e) None of the above

Directions (15-16): The Delhi government approved a new excise policy, lowering the minimum age for consumption of alcohol to 21 years. Earlier, the legal age of drinking in New Delhi was 25.

With the move, the national capital joins the majority of Indian states in having 21 as the legal drinking age. While in some states, the age limit is as low as 18, a few have it at the upper limit of 25. In some states, the consumption of alcohol is forbidden.

Q15. What could be the fallout of the new excise policy approved by Delhi government?

- (a) More revenue will be generated for Delhi Government as compare to earlier.
- (b) Opposition of Delhi will defy the move by state Government.
- (c) New liquor shop will be inaugurated in National Capital.
- (d) Other state will follow the move by Delhi government.
- (e) Liquor will be advertised by Delhi Government through banner in public places.

Q16. Which of the following can be postulated from the above statement?

- (I) Central government is not in the favour of move by Delhi Government.
 - (II) Delhi government wants to increase their revenue through new excise policy.
 - (III) Annual revenue of states who has forbidden the liquor is less in compare to Delhi.
- (a) Only I and III
 - (b) Only III
 - (c) Only I and II
 - (d) Only II
 - (e) All I, II and III

Directions (17-20): Study the following information carefully to answer the given questions:

Nine persons P, Q, R, S, T, U, V, W and Z are sitting in a row such that all are facing towards the south direction. They all have different ages viz. 18, 20, 21, 23, 26, 29, 33, 38 and 41 but not necessarily in the same order.

More than four persons sit between T and the one who is the oldest among them. No one sits to the right of T. Two persons sit between the one who is the oldest and the one who is the youngest. V sits to the immediate left of the one who is the youngest. W is of 29 years. R and S are immediate neighbours of the one who is the oldest. P whose age is 20 years sits fourth to the right of R. W and Q sit adjacent to each other. The one whose age is 33 sits second to the right of the one whose age is 29. Z is not the oldest. The one whose age is 38 sits to the immediate right of the one whose age is 26 years. More than four persons sit between the one whose age is 23 and S.

Q17. Who among the following is of 23 years of age?

- (a) R
- (b) V
- (c) Z
- (d) T
- (e) None of these

Q18. Who among the following sits to the immediate right of the one whose age is 21 years?

- (a) R
 - (b) V
 - (c) T
 - (d) Z
 - (e) None of these
-

Q19. How many persons sit to the right of the one whose age is 26 years?

- (a) Two
- (b) Three
- (c) Four
- (d) Five
- (e) More than five

Q20. Who among the following sits third to the left of the one whose age is 38 years?

- (a) U
- (b) R
- (c) Z
- (d) The one whose age is 21 years
- (e) The one whose age is 20 years

Directions (21-25): Study the information carefully and answer the questions given below.

Seven persons A, B, C, D, E, F and G are born in different years 1948, 1956, 1963, 1971, 1980, 1988, 1992 but not necessarily in the same order. They are born on same date of the same month in different years. (All the calculations of ages are done by considering 2021 as the base year) They like different fruits i.e., grapes, litchi, fig, mango, guava, apple, banana.

The sum of the present age of B and E is 106 years. E is younger to B. The person who is 3rd youngest likes Mango. G is younger to F. The sum of the present age of the one who likes apple and the one who likes banana is 87 years. Neither G nor F likes Apple and Banana. The number of persons born before A is same as the number of persons born after the one who likes Fig. Neither B nor E likes Fig. A is not the youngest person. The difference between the present ages of the one who likes Banana and the one who likes Litchi is 4 years. G does not like Litchi. D does not like Banana and F does not like Guava.

Q21. Who among the following likes fig?

- (a) G
- (b) F
- (c) C
- (d) A
- (e) none of these

Q22. Which among the following pair of persons are the oldest and youngest respectively?

- (a) E, F
 - (b) F, C
 - (c) C, G
 - (d) B, C
 - (e) none of these
-

Q23. In which of the following year was E born?

- (a) 1948
- (b) 1980
- (c) 1971
- (d) 1988
- (e) none of these

Q24. Which of the following statement is true regarding F?

- (a) E was born before F
- (b) F is the youngest
- (c) F was born in 1956.
- (d) F likes apple
- (e) none is true

Q25. How many persons were born between A and C?

- (a) Two
- (b) One
- (c) Three
- (d) Four
- (e) None

Q26. Statement: There has been huge surge in covid cases, but some of the medicine's retailers are doing black marketing of medicines and medical equipment.

Course of Action:

I. Government should take proper legal action against them.

II. All those black marketers should be hanged.

III. Government should fix the rate of medicine and medical equipment.

- (a) Only I and II follow
- (b) Only I follows
- (c) Only I and III follow
- (d) Only II and III follow
- (e) All follow

Directions (27-28): Below in each question are given two Statement I and II. These statements may be either independent causes or may be effects of independent causes or a common cause. One of these statements may be the effect of the other statement. Read both the statements and decide which of the following answer choice correctly depicts the relationship between these two statements.

Give answer

- (a) If Statement I is the cause and Statement II is its effect.
- (b) If Statement II is the cause and Statement, I is its effect.
- (c) If both the Statements I and II are independent causes.
- (d) If both the Statements I and II are effects of independent causes.
- (e) If both the Statement I and II are effects of some common causes.

Q27. I. The central government has started to build 500 beds with the help of DRDO in Mumbai after 5000 covid cases come in a single day.

II. Amid surge in covid cases two players of RCB have withdrawn their name form ongoing IPL cricket match.

Q28. I. This year Bihar has record result of 98% in Intermediate Board Examination.

II. Transport facility has been improved in Bihar in recent years.

Directions (29-33): Study the following information carefully and answer the questions given below:

There are ten persons namely A, B, C, D, P, Q, R, S, Y and Z living on four different floors of a building. Ground floor is numbered as 1 and topmost floor is numbered as 4.

There are three flats on each floor- flat-1, flat-2 and flat-3 from west to east such that flat 2 is west of flat 3 and east of Flat 1. Flat-1 of second floor is exactly above flat-1 of first floor and other flats are placed in the same way. Not more than one flat is vacant in a particular floor or flat number.

S neither lives on odd numbered floor nor in odd numbered flat. B lives in east with respect to S. There is one floor gap between B and R and both have same flat number. The number of people lives in south west of R is same as the number of people lives in north east of P, who does not live in Even number flat. There are two floors gap between P and D. Y lives just above the floor of A who lives on an even numbered floor. A and Y lives in the same flat number. Q lives in east with respect to C. Both Z and R does not live in the same floor and same flat number. C lives just below the D's floor. Flat-1 of any floor is not vacant.

Q29. Who among the following lives in south with respect to Q?

- (a) P
- (b) Y
- (c) A
- (d) Z
- (e) None of these

Q30. Who among the following lives exactly in between A and B?

- (a) D
- (b) Y
- (c) Z
- (d) S
- (e) None of these

Q31. Four of the following five are alike in a certain way and hence they form a group. Which one of the following does not belong to that group?

- (a) D
- (b) Y
- (c) A
- (d) P
- (e) Z

Q32. In a certain way if Y is related to S, and A is related to Z in the same way, then find C is related to who among the following as per the given information?

- (a) R
 - (b) Q
 - (c) B
 - (d) A
 - (e) P
-

Q33. Who among the following lives just below floor on which A lives?

- (a) D
- (b) P
- (c) R
- (d) C
- (e) Y

Directions (34-35): Each of the questions below consists of a question and two statements numbered I and II given below it. You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and give answer.

- (a) If the data in statement I alone are sufficient to answer the question, while the data in statement II alone are not sufficient to answer the question.
- (b) If the data in statement II alone are sufficient to answer the question, while the data in statement I alone are not sufficient to answer the question.
- (c) If the data either in statement I alone or in statement II alone are sufficient to answer the question.
- (d) If the data in both statements I and II together are not sufficient to answer the question.
- (e) If the data in both statements I and II together are necessary to answer the question.

Q34. Eight persons P, Q, R, S, T, U, V and W live in a Building on different floors from top to bottom (such as ground floor numbered as 1 and topmost floor is numbered as 8) where R lives on floor number 3. Who among the following lives on 5th floor?

- (I) Only one person lives between U and V. S lives below R. There are three floors gap between S and U and both of them lives on even numbered floor.
- (II) Three persons live between T and Q. W lives just below Q, who lives on odd numbered floor.

Q35. Seven friends W, X, Y, Z, A, B and C are sitting in a straight line some of them are facing north while some of them are facing south direction. C sits at an extreme end of the line. Y is facing south direction. X sits third to the right of Y. Who among the following sits to the immediate left of Y?

- (I) A sits third to left of C. B sits second to the right of A. X is an immediate neighbor of B.
- (II) W sits third to the right of B. Y is not an immediate neighbor of A. Y sits second to the left of Z.

Directions (36-39): In each of the questions given below, a group of letters is given followed by some combinations of numbers and symbols. You have to find out which of given combinations correctly represents the group of letters based on the numbers/symbols codes and the conditions given below. If none of the given combinations represents the group of digits correctly, give (e) i.e. 'None of these' as the answer.

Letter	M	K	H	R	B	N	E	T	D	L	I	A	Q	F	P
Digit/symbol	8	1	©	2	#	£	7	9	@	6	%	3	4	\$	ϕ

Conditions:

- (i) If the first and the last letters are consonants, both are coded as the code for the first letter.
 - (ii) If the first letter is a consonant and the last letter is vowel then their codes will be interchanged.
 - (ii) If the first letter is vowel and the last letter is consonant, both are coded as the last letter.
 - (iv) If the first and the last letters are vowel, code for 1st and 2nd letter, 3rd and 4th letter and 5th and 6th will be interchange.
-

Q36. RANTED

- (a) @3£972
- (b) 23£972
- (c) 2£397@
- (d) @3£97@
- (e) None of these

Q37. PIRATE

- (a) ϕ%2397
- (b) 72%93ϕ
- (c) 7%239ϕ
- (d) 7%293ϕ
- (e) None of these

Q38. ANTHEM

- (a) £39©73
- (b) 8£97©8
- (c) 3£9©73
- (d) 8£9©78
- (e) None of these

Q39. INHALE

- (a) £%©376
- (b) £%3©76
- (c) %£3©76
- (d) £%©367
- (e) None of these

Q40. In the word '**CONSTITUTION**', all consonants are written as their preceding letter and all vowels are written as their following letters. Now all letters are arranged in alphabetical order from left to right and all the repeated letters are eliminated and written only once. Then, how many such pairs of letters are there, each of which have as many letters between them in the word (in both forward and backward direction) as they have between them in the English alphabetical series?

- (a) One
 - (b) Two
 - (c) Four
 - (d) Three
 - (e) More than four
-

Q41. Healthy diet, Regular exercise and Meditation are three key points to maintain your immunity level- Statement given by Health Ministry after cases of corona has been increased rapidly. Uses of mask, sanitizer has been encouraged. Washing hands with soaps and social distancing has been advised.

Which of the following diminish the advisory by Health Ministry?

- (a) Eating junk and street foods has been increased mainly in case of younger generation.
- (b) All the guests are wearing mask and following all norms in royal wedding of Minister's son.
- (c) Trade unions has decided to reopen the market with some guidelines.
- (d) Yoga class has been introduced in online format for all the Government and private schools.
- (e) Black marketing of Mask has been increased all over the country.

Q42. Statement: The Supreme Court said the government's new rules to regulate OTT

(over-the-top) platforms lacked teeth to punish violators or to screen offensive content. There is no provision for punishment or fine. What is the mechanism to control and regulate these platforms?" Justice Ashok Bhushan, heading a Bench, asked Solicitor General Tushar Mehta. Mr. Mehta agreed and said, "We can come out with a draft and place it before the court," he stated.

Which of the following can be assumed from the above statement?

- (I) Youth generations are diverting to wrong direction after watching web series released on OTT containing abusive content.
 - (II) Producer and Director of a recently launched web series are sitting on a strike after Government puts a ban on its further telecast.
 - (III) Government should regulate the OTT and it must be screened by a panel member before release.
- (a) Only I and III
 - (b) Only III
 - (c) Only I and II
 - (d) Only II
 - (e) Only I

Directions (43-44): Study the following information carefully and answer the question below-

Eight persons of a family live in a house. There are four married couple and two generations in this family. Q and N are married couple. K is father-in-law of O who is sister-in-law of L. L and P are married couple. P is daughter-in-law of R. M and L are siblings of same gender. N is mother of P. R is married with K.

Q43. Who among the following is sister-in-law of M?

- (a) Q
- (b) R
- (c) P
- (d) K
- (e) None of these

Q44. If A is the only child of M, then how is R related to A?

- (a) Grand mother
 - (b) Mother
 - (c) Aunt
 - (d) Father
 - (e) None of these
-

Directions (45-48): Study the following information carefully and answer the questions given below.

Eight persons are sitting around a square table, in such a way that some of them are facing towards the center while some are facing outside the center. Four of them have different brand of chocolates and they sit at the corners while four of them have different colours of balloons and they sit at the middle of each side of the table.

R sits third to the right of S. The one who has Green balloon sits third to the right of R. S does not have Green balloon. The one who has KitKat sits third to the right of Q. T has Snickers and sits on the immediate right of the one who has Green balloon. The one who has Perk sits opposite to the one who has Snickers. R does not have Perk. W sits third to the right of the one who has Perk. The one who has White balloon sits second to the right of W. The one who has Pink balloon sits third to the right of U, who faces inside. The one who has White balloon faces Q. P does not have Blue balloon. The one who has Dairy Milk sits third to the right of V. V and T face opposite direction.

Q45. Who among the following sits third to the right of P?

- (a) The one who has pink balloon
- (b) Q
- (c) T
- (d) V
- (e) None of these

Q46. Who among the following person has KitKat chocolate?

- (a) The one who sits immediate left of V
- (b) S
- (c) W
- (d) The one who sits second to the right of Q
- (e) None of these

Q47. Which of the following statement is true about V?

- (a) V sits third to the right of U
- (b) V is facing same direction as W
- (c) V has pink balloon
- (d) V is an immediate neighbor of Q
- (e) None of these

Q48. Who among the following sits opposite to R?

- (a) The one who sits immediate left of Q
 - (b) The one who has blue balloon
 - (c) V
 - (d) The one who likes Dairy Milk
 - (e) Both (a) and (d)
-

Directions (49-50): In the following questions, the symbols #, %, @ and * are used with the following meanings as illustrated below.

Study the following information and answer the given questions:

Note: The directions which are given indicated exact directions.

P#Q - Q is in the south direction of P at distance of 15m.

P%Q - Q is in the north direction of P at distance of 14m

P@Q - Q is in the east direction of P at distance of 13m

P*Q - Q is in the west direction of P at distance of 16m.

P#*Q- Q is in the southwest direction of P.

P%@Q- Q is in the northeast direction of P.

Q49. If $F@C\#B*D\#E$ is true, then find the shortest distance between E and F?

- (a) $2\sqrt{17}m$
- (b) $\sqrt{25}m$
- (c) $25\sqrt{5}m$
- (d) $\sqrt{234}m$
- (e) None of these

Q50. If $K*L\%M@N$ is true, then find the approx. shortest distance between N and K?

- (a) 10m
- (b) 15m
- (c) 14m
- (d) 16m
- (e) 18m

Directions (51-57): Read the given passage and answer the following questions. Some words have been highlighted to help you located them while answering some questions.

The government's tax transparency initiative with faceless assessment and appeals and a taxpayer charter is welcome. Corruption depends on human interface and the misuse of arbitrary powers by taxmen. That must go. Contactless assessment will minimise the interface between the assessing officer and the assessee, and improve compliance. Tax officers will also **desist** from making high-pitched assessments in their zeal to meet collection targets. Launching the platform for 'Transparent Taxation — Honouring the Honest', Prime Minister Narendra Modi urged people to introspect and pay their tax dues. However, the way to augment direct tax collections is to clean up the goods and services tax (GST), which generates audit trails to income currently escaping tax. Nearly 66% of the total tax collections in the country come from indirect taxes that are borne by the rich and poor alike. The share of direct taxes in total tax revenues must rise. The mining of GST data and electricity bills makes it **eminently** feasible. The gross value added for the economy is equal to the gross profits plus wages and salaries.

It holds at the firm level and can be used to estimate the value added by each production unit, and its distribution to taxable entities. Electricity bills and employee provident fund payouts must tally with the claimed production and menvalue-added levels.

The remedy is to extend the reach of formal finance, make small units keep books and bring these into tax net. Data analytics must be used to track the physical volumes of raw materials along their production chain ending in tax-evaded goods. If garments evade taxes, the suppliers of the fibre that is spun into yarn later converted to fabric should be asked to furnish the details of all their customers. These should be _____, and their customers, and so on. Reverse charge should be used more widely, also be universal so that buyers can pay tax on their purchases directly to the government while recognising the vendor on whose behalf the tax is being paid.

Q51. How contactless assessment in taxation system will help in reducing the corruption?

- (a) speeding of concerned procedures due to less physical interaction
- (b) absence of physical interaction will lead to the adherence of established procedures
- (c) both (b) and (d)
- (d) officials will be restrained from flouting rules and regulations
- (e) None of these.

Q52. Which of the following is similar in meaning to '**EMINENTLY**' as used in the passage?

- (a) renowned
- (b) extremely
- (c) meagre
- (d) realistic
- (e) None of these.

Q53. Which of the following reason(s) for the corruption has been mentioned in the passage?

- (i) highly political and economic environment of the country
- (ii) lack of professional ethics in the officials
- (iii) widespread poverty in the country
- (a) Only (ii)
- (b) Only (iii)
- (c) Both (i) and (ii)
- (d) Both (ii) and (iii)
- (e) None of these.

Q54. Select appropriate filler for the blank given in the passage.

- (a) revised
- (b) merged
- (c) highlighted
- (d) traced
- (e) None of these.

Q55. Which of the following method has been suggested in the passage to increase tax collection?

- (a) introducing simplified version of tax filling system
 - (b) make improvements in current system to trace people not filling tax
 - (c) increasing the production in the country leading to increased tax collection
 - (d) replacing old taxation system with new and better one
 - (e) None of these.
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Q56. Which of the following is opposite in meaning to ‘**DESIST**’ as used in the passage?

- (a) conclude
- (b) abstain
- (c) continue
- (d) cease
- (e) None of these.

Q57. Which of the following statement can be inferred from the given passage?

- (a) Direct taxes contribute a significant share in the tax collection system
- (b) Tracking amount of goods produced to their end use can help in determining tax evasion
- (c) Tax deduction at sources should be made mandatory for proper tax collection
- (d) both (b) and (c)
- (e) None of these.

Directions (58-65): Read the given passage and answer the following questions. Some words have been highlighted to help you locate them while answering some questions.

If a house needs repairs, and the repairs are delayed for a long time, the house develops a force to haunt its inhabitants during **adversity**. This analogy applies to the state of children’s education. Decisions pertaining to it are dependent on structures designed to overlook local factors. These structures were forged to ensure total compliance, no matter how vast the system became and how diverse remained the demands served by it. Decentralization was routinely favored, but it did not touch the core aspects of education as a system.

Craving for a modest amount of autonomy unites principals and teachers from across the sharply divided segments of our vast network of schools. For those serving in government-run schools, there is no provision in the rule book for freedom on any count that matters. Since British days, the bureaucracy views school functionaries with the deepest suspicion, both in their capacities and integrity. No matter how senior you are, your job is to silently follow the orders and circulars issued by the directorate and the examination board.

Now arrives the novel coronavirus pandemic. The virus has spread across the country, but its impact in different regions is uneven. The metro cities have been affected far more than others, but it is now reported to be spreading in many district towns. No specific data are publicly available on villages. India has over six lakh villages. No single picture can cover their diverse geography and economics. Health standards and facilities differ, and so does the impact of COVID-19. Why the virus has not affected the rural hinterland as much as it has affected cities is far from clear. Many experts think that the uneven spread is merely a matter of poor reporting from villages. They smile if you tell them that many Panchayats are actively guarding their territories. It is not surprising that the awareness and resilience demonstrated by many villages is largely ignored in the media. It is an example of the general bias that _____ urban perception in all spheres of life.

No separate consideration of village needs seems possible in the current crisis. That is why all schools, urban and rural, have stayed closed since the last week of March. Cooked mid-day meals served to children at school have been replaced in many States by the distribution of grain and money to their children. If village schools had some autonomy, many would have found local conditions good enough to allow children to come for their meals and spend some time studying. Decisions regarding the daily time span and class size might have been taken in accordance with distancing norms by schools’ heads and teachers.

Q58. Which of the following statement can be inferred clearly from the given passage?

- (a) Parents generally support the regimented approach of directorates and Boards
- (b) that communications technology can improve pedagogic quality of education system
- (c) Teachers from all segments of life and regions are in support of autonomy in education sector
- (d) We live in a time when learning outcomes needs to be clerically proved
- (e) None of these.

Q59. Select appropriate filler for the blank given in the passage.

- (a) accrued
- (b) dimmed
- (c) pervades
- (d) appeal
- (e) None of these.

Q60. Select the statement which is true about the teacher working in government schools?

- (i) teachers and principals are kept under a fat thumb
 - (ii) single teacher teaching multiple subjects
 - (iii) burden of other responsibilities such as election duties, etc.
- (a) Only (i)
 - (b) Only (iii)
 - (c) Both (i) and (ii)
 - (d) Both (ii) and (iii)
 - (e) All of these.

Q61. which of the following problem pertaining to education system has been mentioned in the passage?

- (a) excluding local factors while making structural changes
- (b) dearth of decentralized monitoring mechanism
- (c) based on ancient techniques and practices of teaching
- (d) biased attitude towards schools in rural and urban areas
- (e) None of these.

Q62. Why spread of COVID-19 is not as intense in rural areas as compared to that in metro cities?

- (a) inadequate testing in rural areas leading to less reported cases
 - (b) both (a) and (c)
 - (c) timely steps taken by governing bodies in rural areas to stop the spread
 - (d) strong immunity among those living in the villages
 - (e) None of these.
-

Q63. How COVID-19 has affected the students in rural and urban areas?

- (i) closure of schools and colleges across the nation
- (ii) termination of mid-day meal facilities to the students
- (iii) deferment of examinations final year examinations
- (a) Only (ii)
- (b) Only (iii)
- (c) Both (i) and (ii)
- (d) Both (ii) and (iii)
- (e) All of these.

Q64. How the institutional autonomy in education sector could have helped in proper functioning of schools in villages?

- (a) basic prerequisite of educational technology can be fulfilled at local level
- (b) increase in outdoor activities of children for assigned observation
- (c) making rules and regulation based on the local conditions rather than broad scenario
- (d) employing desired staff catering to the need of individual schools
- (e) None of these.

Q65. Which of the following is similar in meaning to 'ADVERSITY' as used in the passage?

- (a) contender
- (b) hardship
- (c) effervescent
- (d) companion
- (e) None of these.

Directions (66-70): In the following questions two columns are given containing three sentences/phrases each. In first column, sentences/phrases are A, B and C and in the second column the sentences/phrases are D, E and F. A sentence/phrase from the first column may or may not connect with another sentence/phrase from the second column to make a grammatically and contextually correct sentence. Each question has five options, four of which display the sequence(s) in which the sentences/phrases can be joined to form a grammatically and contextually correct sentence. Choose appropriate option. If none of the options given forms a correct sentence after combination, mark (e), i.e. "None of these" as your answer.

Q66. COLUMN I

- (A) The Council of Scientific and Industrial Research is working on developing "mega labs"
- (B) The genome method can read a bigger chunk of virus genome
- (C) To trace the evolutionary history of the virus and track mutations more reliably

COLUMN II

- (D) to ramp up testing for COVID-19 as well as improve the accuracy rate
 - (E) are normally used for sequencing human genomes
 - (F) these machines can substantially detect the presence of the virus
 - (a) Only A-E and B-D
 - (b) Only B-F
 - (c) Only A-D
 - (d) Only C-D
 - (e) None of these
-

Q67. COLUMN I

- (A) Independence Day celebrations will be held at the Delhi Secretariat instead of
- (B) A small function was being organised at the Players Building with 100 dignitaries
- (C) One representative of the doctors, nurses, sanitation workers, plasma donors

COLUMN II

- (D) including Chief Minister, the Cabinet of Ministers and Members of Parliament
- (E) the Chhatrasal Stadium this year in accordance with social distancing norms
- (F) the decreasing percentage of students in Delhi government schools

- (a) Only A-E and B-D
- (b) Only B-F
- (c) Only A-D
- (d) Only C-D
- (e) None of these

Q68. COLUMN I

- (A) The Contempt of Court Act of 1971 punishes with imprisonment that may
- (B) The magnanimity of courts should not extend to weakness
- (C) If attack on democracy is not dealt with requisite degree of firmness

COLUMN II

- (D) it may affect national honour and prestige in the comity of nations
- (E) was the duty of the court to punish to preserve its dignity
- (F) criticism of judges as judiciary would amount to scandalising the court

- (a) Only A-E and B-D
- (b) Only B-F
- (c) Only A-D
- (d) Only C-D
- (e) None of these

Q69. COLUMN I

- (A) The COVID-19 pandemic had demolished the illusion that humans
- (B) President Ram Nath Kovind said while India believes in peace
- (C) Some in our neighbourhood tried to carry out the misadventure

COLUMN II

- (D) to the nation on the eve of the 74th Independence Day
- (E) hailed Indian soldiers who sacrificed their lives fighting
- (F) it is also capable of giving a befitting response to any attempt of aggression

- (a) Only A-E and B-D
 - (b) Only B-F
 - (c) Only A-D
 - (d) Only C-D
 - (e) None of these
-

Q70. COLUMN I

- (A) A day before the Independence Day celebration, the city has been
- (B) The undergraduate political science students were allegedly sent mock test papers
- (C) Deployment of security personnel is being made both

COLUMN II

- (D) instead of exam papers for a short period during their open book exam
- (E) turned into a fortress with multiple layers of security
- (F) and visiting hotels in the vicinity in search of suspicious elements
- (a) Only A-E and B-D
- (b) Only B-F
- (c) Only A-D
- (d) Only C-D
- (e) None of these

Directions (71-75): In the following passage there are blanks, each of which has been numbered and one word has been suggested alongside the blank. These numbers are printed below the passage and against each, five options are given. In four options, one word is suggested in each option. Find out the appropriate word which fits the blank appropriately.

Prime Minister Narendra Modi launched an undersea optical fibre cable connecting the Andaman and Nicobar Islands with the **outskirts (71)** that would provide residents of the Union Territory high-speed Internet connection. The Prime Minister had laid the foundation stone for the 2,300-km-long submarine optical fibre cable project connecting Chennai and the Andaman and Nicobar Islands on December 30, 2018.

At the launch held through videoconference, Mr. Modi said that providing better and cheap connectivity to the people of the Andaman & Nicobar Islands was the responsibility of the country. He added that the government was **oblige (72)** to developing "national security-linked border areas and island states".

The Indian Ocean and the Andaman & Nicobar Islands had been important centers for trade and strategic cooperation. The Andaman & Nicobar Islands had an important role to play in India's "Act East" policy, he said.

Mr. Modi said several projects were under way, including **enactment (73)** of the capacity of the Port Blair airport; new airports at Diglipur, Car Nicobar and Campbell Bay; and passenger terminals at Swaraj Dweep, Shaheed Dweep and Long Island.

The islands would be developed as a hub of "port- led development" as they were located at a **competitive (74)** distance from many ports. Mr. Modi said as the country moved towards self-reliance and established itself as an important player in the global supply and value chain, it was important to improve the network of **networking (75)** and ports.

Q71.

- (a) division
 - (b) member
 - (c) guidelines
 - (d) mainland
 - (e) No replacement required.
-

Q72.

- (a) committed
- (b) responsible
- (c) devote
- (d) accounted
- (e) No replacement required.

Q73.

- (a) collapse
- (b) restriction
- (c) enhancement
- (d) awarding
- (e) No replacement required.

Q74.

- (a) competition
- (b) adjoining
- (c) regular
- (d) mitigating
- (e) No replacement required.

Q75.

- (a) companies
- (b) supply
- (c) waterways
- (d) computers
- (e) None of these.

Directions (76-80): Select the phrase/connector (STARTERS) from the given three options which can be used to form a single sentence from the two sentences given below, implying the same meaning as expressed in the statement sentences.

Q76.

- (I) Delhi government has ordered conversion of five hotels into extensions of five private hospitals.
 - (II) There is increase in the number of beds available for COVID-19 patients.
 - (i) Due to Delhi governments' order of conversion....
 - (ii) The extension of five private.....
 - (iii) To increase the number of.....
 - (a) Both (i) and (iii)
 - (b) Only (ii)
 - (c) Both (iii) and (ii)
 - (d) Only (iii)
 - (e) None of these
-

Q77.

- (I) The permit system for inter-State movement of vehicles has been removed.
(II) There shall be no restriction on movement within and outside a State.
(i) In order to permit the restriction.....
(ii) Although the permit system.....
(iii) Doing away with permit.....
(a) Both (i) and (iii)
(b) Only (ii)
(c) Both (iii) and (ii)
(d) Only (iii)
(e) None of these

Q78.

- (I) India's effort was to ensure that tensions did not rise further.
(II) The standoff along the Line of Actual Control with China would be resolved through diplomatic dialogue.
(i) In the lieu of India's effort.....
(ii) Reaping the fruit of India's effort...
(iii) Resolving the standoff along....
(a) Both (i) and (iii)
(b) Only (ii)
(c) Both (iii) and (ii)
(d) Only (iii)
(e) None of these

Q79.

- (I) A plea was filed against restaurants and commercial establishments causing noise, air and water pollution.
(II) The National Green Tribunal directed the New Delhi Municipal Council and the Delhi Pollution Control Committee to furnish an action-taken report.
(i) Directing the National Green Tribunal...
(ii) Following a plea seeking action against.....
(iii) Mindful of plea filed against....
(a) Both (i) and (iii)
(b) Only (ii)
(c) Both (iii) and (ii)
(d) Only (iii)
(e) None of these
-

Q80.

(I) Goa witnessed a huge influx of people in the last couple of days.

(II) the government is planning to go back to its previous system of issuing travel passes.

(i) In order to go back to....

(ii) With Goa witnessing...

(iii) Resulting a huge influx of.....

(a) Both (i) and (iii)

(b) Only (ii)

(c) Both (iii) and (ii)

(d) Only (iii)

(e) None of these

Directions (81-85): In the following questions, a part of the sentence is given in bold which may or may not be fitting into the sentence either due to grammatical error or contextual error. There are three expressions given below each sentence, out of which one or more than one can be used to replace the existing highlighted phrase to make the sentence both grammatically and contextually correct. Choose the most appropriate alternative among the four options that determine the correct phrase that should replace the phrase given in bold. If the phrase given in bold doesn't require any replacement, choose option (e) as your answer.

Q81. The professor's **four old boxed teaching files** are sure to aid the defense.

(i) four old boxed teaching files

(ii) old four boxed teaching files

(iii) boxed four old teaching files

(a) Only (ii)

(b) Both (i) and (ii)

(c) Only (i)

(d) Both (ii) and (iii)

(e) No correction required.

Q82. With eye-watering wages and **a lavish rock star lifestyle to go along at it**, much of the planet was ready to celebrate Atalanta's 1-0 success.

(i) a lavish rock star lifestyle to go along from it

(ii) a lavish rock star lifestyle to go along with it

(iii) a lavish rock star lifestyle to go along about it

(a) Only (ii)

(b) Both (i) and (ii)

(c) Only (i)

(d) Both (ii) and (iii)

(e) No correction required.

Q83. Two legal instruments that **enabled tiger recoveries in India** were the Wildlife Protection Act of 1972 and the Forest Act of 1980, which reinforced Project Tiger.

- (i) enables tiger recoveries in India were
- (ii) enabled tiger recoveries in India are
- (iii) enabling tiger recoveries in India are
- (a) Only (ii)
- (b) Both (i) and (ii)
- (c) Only (i)
- (d) Both (ii) and (iii)
- (e) No correction required.

Q84. High arrest numbers during the recovery **movement control order have persisted across the country** yesterday when 286 people were detained over various infractions

- (i) movement control order have been persisted across the country
- (ii) movement control order persisted across the country
- (iii) movement control order persisted around the country
- (a) Only (ii)
- (b) Both (i) and (ii)
- (c) Only (i)
- (d) Both (ii) and (iii)
- (e) No correction required.

Q85. **The lamp is ornamented in rich green leaves** with bluish highlights with lovely pink and white apple blossoms surrounding orange and yellow apples.

- (i) The lamp was ornamented with rich green leaves
- (ii) The lamp is ornamented with rich green leaves
- (iii) The lamp was ornamented in rich green leafs
- (a) Only (ii)
- (b) Both (i) and (ii)
- (c) Only (i)
- (d) Both (ii) and (iii)
- (e) No correction required.

Directions (86-90): Given below the sentences each of which has been divided into four parts Each of the questions is then followed by the five options which give the sequence of the rearranged parts. You must choose the option which gives the correct sequence of the parts. If the sentence is already arranged in the correct sequence or the correct sequence doesn't match with any of the given sequence, mark option (e).i.e. "No arrangement required" as your answer.

Q86. the Nagaraja, dated 6th to 8th century, (A)/ are said to be from the 15th century, (B)/ is from Rajasthan or Madhya Pradesh(C)/ While the Dwarapalas from Tamil Nadu(D).

- (a) DCBA
 - (b) DABC
 - (c) DBAC
 - (d) BACD
 - (e) No arrangement required
-

Q87. Export and Transport of Ownership of Cultural Property (A)/ Prohibiting and Preventing the Illicit Import,(B) / to the UNESCO 1970 Convention on the Means of (C)/Both India and Australia are party (D).

- (a) DCBA
- (b) DABC
- (c)DBAC
- (d)BACD
- (e) No arrangement required

Q88. his son Raninder Singh and (A)/ Besides Capt. Amarinder, (B)/ son-in-law Raminder Singh were (C)/also accused in the case(D).

- (a) DCBA
- (b) DABC
- (c)DBAC
- (d)BACD
- (e) No arrangement required

Q89. were enacted in July, and gave the Centre(A)/ the power to determine the tenure, salary and perks(B)/ of the State and Central Information Commissioners(C)/ the amendments to the transparency legislation (D).

- (a) DCBA
- (b) DABC
- (c)DBAC
- (d)BACD
- (e) No arrangement required

Q90. while also downgrading their status and allowances(A) /of the Commissioners from five to three years,(B)/ were notified in October, and reduced the tenure(C)/ The Rules to the RTI Amendment Act(D).

- (a) DCBA
- (b) DABC
- (c)DBAC
- (d)BACD
- (e) No arrangement required

Direction (91 – 95): Given below table shows number of male and female employee in five different bank and percentage of ‘employees who got promoted out of total employee in each of these banks. Read the data carefully and answer the questions.

Banks	Male employee	Female employee	% Of employees who got promoted
SBI	800	700	40%
UBI	520	200	80%
PNB	680	840	60%
UCO	400	600	80%
BOB	480	720	50%

Note – Total employees in any bank = Total (male + female) employees in that bank.

Q91. If female employee promoted in SBI are 50% more than promoted male employee in SBI and male employees who are promoted in UBI are 100% more than male employees who are promoted in SBI, then find number of female employees who did not get promotion in SBI & UBI together?

- (a) 424
- (b) 484
- (c) 444
- (d) 422
- (e) 448

Q92. Find the difference between total promoted employee from PNB & BOB together and average number of male employees from SBI & BOB?

- (a) 872
- (b) 672
- (c) 832
- (d) 842
- (e) 862

Q93. Total employee promoted from UCO is what percent more than total employee promoted from SBI?

- (a) $66\frac{2}{3}\%$
- (b) $30\frac{1}{3}\%$
- (c) $36\frac{1}{3}\%$
- (d) $33\frac{1}{3}\%$
- (e) None of these

Q94. If ratio of male to female employee promoted from PNB is 9 : 7, then find difference between male and female employee promoted from PNB?

- (a) 134
- (b) 124
- (c) 114
- (d) 104
- (e) 112

Q95. If total female employee promoted from UCO are $66\frac{2}{3}\%$ more than total male employee promoted from same bank, then find total employee promoted from BOB is what percent of total female employee promoted from UCO?

- (a) 100%
 - (b) 120%
 - (c) 80%
 - (d) 125%
 - (e) 150%
-

Direction (106-110): Find out the value of question mark (?) in the given questions.

Q96. 12.50% of $1440 - 17 \times 51 + 721 = ?$

- (a) 30
- (b) 31
- (c) 32
- (d) 33
- (e) 34

Q97. $\sqrt{4096} + \frac{4}{5}$ of $780 - ? = 296$

- (a) 356
- (b) 360
- (c) 376
- (d) 392
- (e) 420

Q98. $17^2 + 896 + 12^2 - 25\%$ of $1100 = ?$

- (a) 1000
- (b) 1050
- (c) 1054
- (d) 1058
- (e) 1060

Q99. $\frac{3}{7}$ of $686 + 133\frac{1}{3}\%$ of $33 - 69 = ?$

- (a) 269
- (b) 239
- (c) 249
- (d) 259
- (e) 289

Q100. $(33 + 6.25\%$ of $4096) = ? + 2 \times 119$

- (a) 41
- (b) 51
- (c) 61
- (d) 31
- (e) 81

Directions (111-115): Read the passage given below and answer the following questions.

A school has a total of 990 students. Each student has to select at least 1 sport among Cricket, Football and Badminton.

Students who play only Badminton are 50% of students who play only Football and ratio of students who play only Cricket to students who play only Badminton is 5:2. Students who play all 3 games together are 50% of students who play only Badminton. Students who play both Cricket and Badminton together are equal to students who play both Football and Badminton but not Cricket. Students who play both Cricket and Football but not Badminton are 50% more than students who play all 3 games together. Students who play both Cricket and Football but not Badminton are 50% of students who play both Football and Badminton together.

Q101. Find the total number of students who play Football.

- (a) 510
- (b) 560
- (c) 530
- (d) 500
- (e) 480

Q102. Find the number of students who play Cricket and Football together are how much more or less than number of students who play only Football?

- (a) 150
- (b) 80
- (c) 110
- (d) 90
- (e) 140

Q103. Find the total number of students who play at least 2 games.

- (a) 260
- (b) 280
- (c) 360
- (d) 330
- (e) 300

Q104. Total number of students who play Cricket are what percent more or less than total number of students who play Badminton?

- (a) $48\frac{2}{3}\%$
- (b) $46\frac{1}{3}\%$
- (c) $41\frac{2}{3}\%$
- (d) $37\frac{1}{3}\%$
- (e) None of the above.

Q105. Total number of students who play exactly 1 more game along with Cricket are how much more or less than total number of students who play exactly 2 more game along with Football.

- (a) 150
 - (b) 210
 - (c) 180
 - (d) 90
 - (e) 130
-

Q106. Vessel contains 40 liters wine. If x liters of wine is taken out and replaced with water, this process is repeated two more times and then quantity of wine in the vessel is 20.48 liters, find the value of x ?

- (a) 12 liters
- (b) 7 liters
- (c) 5 liters
- (d) 8 liters
- (e) 15 liters

Q107. Perimeter of square is 48 cm and length of a rectangle is equal to side of square and breadth of rectangle is 4 cm less than length of the rectangle. Find the area of rectangle.

- (a) 58 cm^2
- (b) 96 cm^2
- (c) 105 cm^2
- (d) 88 cm^2
- (e) 72 cm^2

Q108. The average age of A, B & C is 48 years. Ratio of present ages of A to C is 3:5 and present age of B is 33.33% more than that of A. find the difference between age of A after 5 years to age of B 2 years ago.

- (a) 5 years
- (b) 2 years
- (c) 7 years
- (d) 15 years
- (e) 19 years

Q109. P, Q & R started a business with investment of Rs.28000, Rs.16000 & Rs.20000 respectively. After the 6 months P added 25% of his initial investment more and Q withdrew Rs.6000. At the end of the year profit earned by R is Rs.3120, then find the difference between profit share of P and of Q

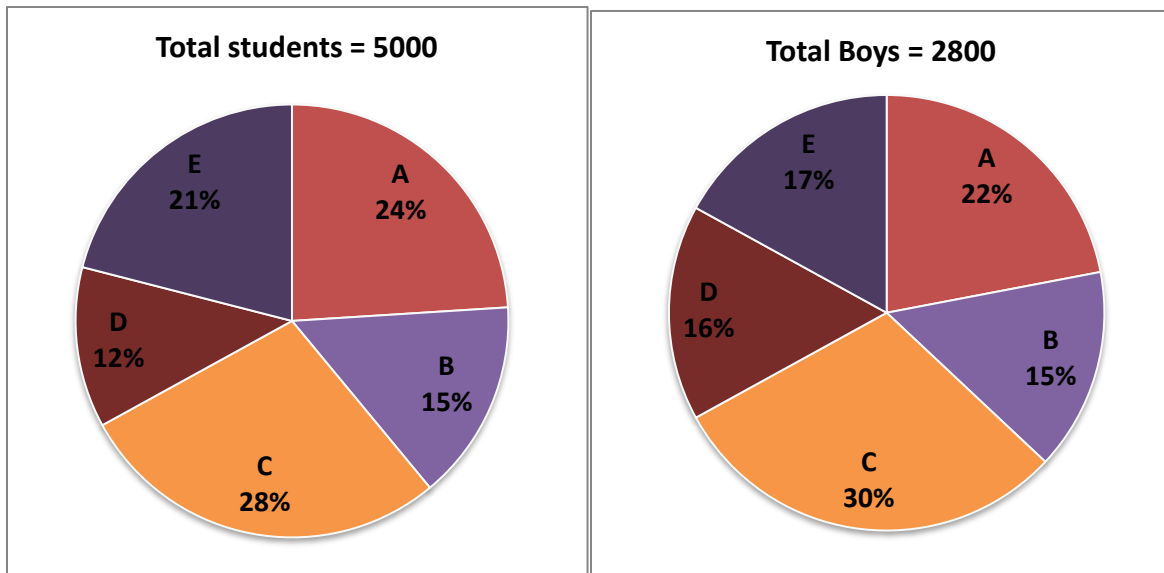
- (a) Rs.1486
- (b) Rs.2676
- (c) Rs.2006
- (d) Rs.2886
- (e) Rs.2216

Q110. Speed of boat in still water is 60% more than speed of current and total time takes by boat to cover certain distance going downstream and upstream is 32 hours. Find the time taken by boat to cover same distance in still water.

- (a) $8\frac{7}{8}$ hours
 - (b) $9\frac{5}{8}$ hours
 - (c) $9\frac{1}{4}$ hours
 - (d) $7\frac{1}{2}$ hours
 - (e) $9\frac{3}{4}$ hours
-

Directions (121-125): Study the pie chart given below and answer the following questions.

Pie charts shows the percentage distribution of total students in 5 different schools (A, B, C, D & E) and percentage distribution of total boys in these 5 schools in year 2019.



Q111. Total girls from school B and D together are what percent total students from school C and D together?

- (a) 26.1%
- (b) 23.1%
- (c) 25.1%
- (d) 22.1%
- (e) 24.1%

Q112. What is the ratio of total girls from school C and D together to total girls from school B and E together?

- (a) 87 : 112
- (b) 89 : 117
- (c) 89 : 115
- (d) 87 : 113
- (e) 89 : 113

Q113. Number of girls in school B in 2020 are increased by 20% over previous year while number of boys are decreased by $14\frac{2}{7}\%$. Total students in school B in year 2020 are what percent more or less than the total students in school D in year 2019?

- (a) 28%
 - (b) 24%
 - (c) 20%
 - (d) 27%
 - (e) 26%
-

Q114. Out of total boys in school A, $2\frac{3}{11}\%$ failed the exam. If out of total students in class A, 7% failed the exam, then girls in school A who failed the exam are what percent of the total girls in school C?

- (a) 15%
- (b) 20%
- (c) 12%
- (d) 12.5%
- (e) 16%

Q115. Find average number of boys in school – C, D & E ?

- (a) 588
- (b) 615
- (c) 674
- (d) 549
- (e) 571

Direction (126 – 130): In each of these questions, two equations (i) and (ii) are given. You have to solve both the equations and give answers.

- (a) if $x > y$
- (b) if $x \geq y$
- (c) if $x = y$ or no relation can be established between x and y .
- (d) if $y > x$
- (e) if $y \geq x$

Q116. (i) $2x^2 - 12x + 16 = 0$

(ii) $2y^2 - 20y + 48 = 0$

Q117. (i) $x^2 - 3x - 40 = 0$

(ii) $y^2 + 11y + 30 = 0$

Q118. (i) $2x^2 - x - 3 = 0$

(ii) $2y^2 - 6y + 4 = 0$

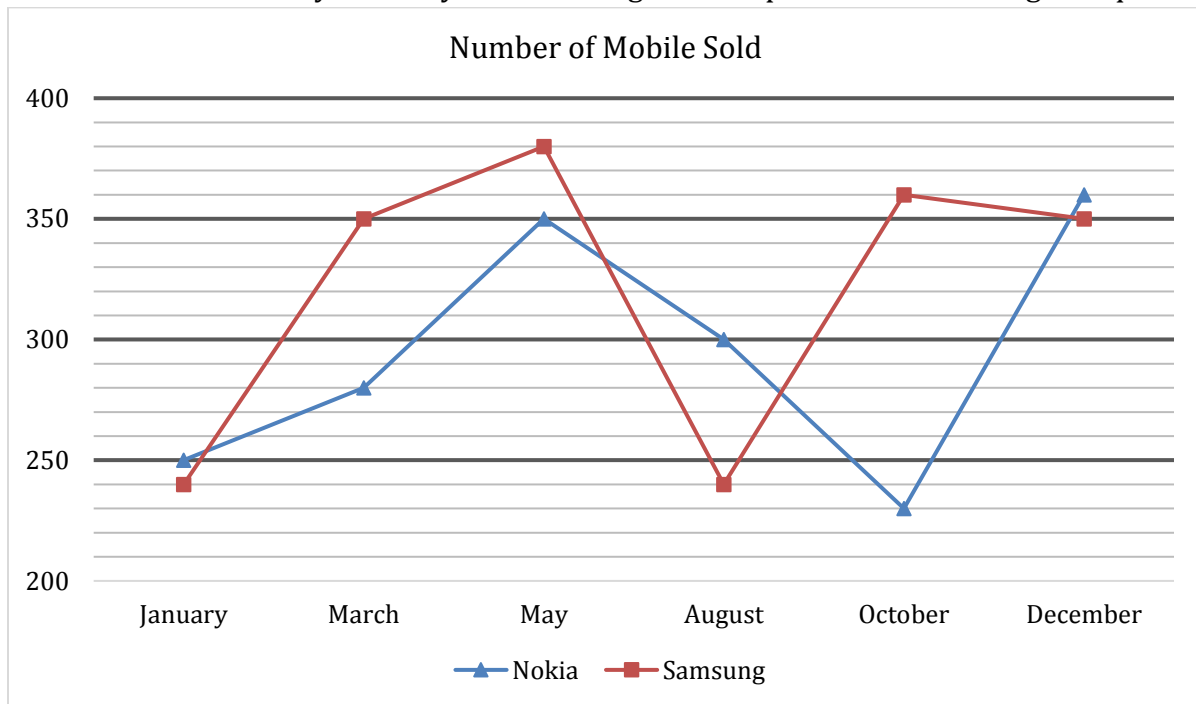
Q119. (i) $2x^2 + 14x - 16 = 0$

(ii) $y^2 - y - 12 = 0$

Q120. (i) $2x^2 - 9x + 10 = 0$

(ii) $4y^2 - 12y + 9 = 0$

Directions (131-135): Given Line chart shows number of Nokia and Samsung mobile sold by a shop during 6 different months. Study carefully the following Line Graph and answer the given questions.



Q121. Number of Sold Nokia mobile in months of March and December together is what percentage more or less than number of sold Samsung mobile in Months of August and October together?

- (a) 8%
- (b) $8\frac{2}{3}\%$
- (c) 6%
- (d) $6\frac{2}{3}\%$
- (e) 10%

Q122. What is ratio of Nokia mobile sold in months of January, May and August together to Samsung Mobile sold in months of May, August and October together?

- (a) 45:49
- (b) 49:45
- (c) 43:47
- (d) 47:49
- (e) 47:43

Q123. Average number of Sold Nokia Mobile in all these 6 months is how much more or less than Average number of Sold Samsung Mobile in all these 6 months?

- (a) 24
- (b) 30
- (c) 25
- (d) 28
- (e) 22

Q124. In months of July, Number of sold Nokia mobile is 20% less than Number of sold Samsung Mobile. If Sum of Nokia and Samsung Mobile Sold in months of July is 30% more than sum of Nokia and Samsung Mobile Sold in March, then find Number of Nokia mobile sold in Month of July?

- (a) 332
- (b) 328
- (c) 326
- (d) 344
- (e) 364

Q125. Number of Sold Nokia mobile in months of March, May and December together is approximately what percent of Number of sold Samsung mobile in months of August, October and December together?

- (a) 96%
- (b) 104%
- (c) 106%
- (d) 90%
- (e) 112%

Direction (136 – 140): What will come in the place of question (?) mark in following number series?

Q126. 11, 46, 109, 208, 351, ?

- (a) 443
- (b) 546
- (c) 456
- (d) 470
- (e) 504

Q127. 720, ?, 240, 180, 144, 120

- (a) 360
- (b) 450
- (c) 500
- (d) 480
- (e) 380

Q128. 1, 2, 11, 36, 85, ?

- (a) 170
 - (b) 166
 - (c) 154
 - (d) 150
 - (e) 164
-

Q129. ?, 12, 24, 44, 74, 116

- (a) 10
- (b) 4
- (c) 6
- (d) 8
- (e) 5

Q130. ?, 190, 210, 238, 274, 318

- (a) 170
- (b) 198
- (c) 186
- (d) 178
- (e) 190

Q131. Three pipe P1, P2 and P3 fill the tank in 15 hours, 10 hours and 20 hours respectively. If all the three pipes opened together and pipe P2 & P1 are closed after three hours, then pipe P3 fill the remaining tank. Find the total time to fill whole tank.

- (a) 12 hours
- (b) 6 hours
- (c) 14 hours
- (d) 10 hours
- (e) 17 hours

Q132. Joshi invest Rs.4000 at the rate of R% simple interest for four years and he got Rs.1600 as interest. If he invests same amount for 2 years in C.I. and rate of interest increased by 4%. Find the interest received by joshi after 2 years.

- (a) Rs. 2098.4
- (b) Rs. 1458.4
- (c) Rs. 1294.4
- (d) Rs. 1094.4
- (e) Rs. 1198.4

Q133. If the ratio of marked price and selling price of an article is 13:10. Shopkeeper earned 25% profit. If the difference between marked price and cost price of an article is Rs.450. find the selling price of an article.

- (a) Rs.940
 - (b) Rs.670
 - (c) Rs.1040
 - (d) Rs.900
 - (e) Rs.820
-

Q134. Train crosses a bridge which is 250 m long in 25 sec. Find the time taken by train to cross a man running in opposite direction at speed of 15m/sec. Find the speed of train.

- (a) Can't be determined
- (b) 14 m/sec
- (c) 24 m/sec
- (d) 18 m/sec
- (e) 20 m/sec

Q135. Average age of 4 daughter of a family is 8 years and average age of daughter together with their parents is 16 years. If mother is 4 years younger than father. Find the age of father 2 year ago.

- (a) 38 years
- (b) 32 years
- (c) 25 years
- (d) 42 years
- (e) 55 years

Q136. Amit is $66\frac{2}{3}\%$ more efficient than Vivek who can do the same work in 25% more time than Sameer. If Amit and Sameer together can complete 70% of work in 15 days, then in how many days 90% of work can be completed by Vivek and Sameer together.

- (a) 20 days
- (b) 25 days
- (c) 18 days
- (d) 21 days
- (e) 30 days

Q137. The monthly income of a person is Rs.25000 from which he spends 20% on rent, 10% of remaining on food and 20% of remaining on clothing. The remaining amount, he shares between his son and daughter in the ratio of 5: 4. Find the difference between amount spent on rent and share of his daughter.

- (a) Rs.1600
- (b) Rs.1400
- (c) Rs.1500
- (d) Rs.1800
- (e) Rs.1200

Q138. A bag has 7 pink, 4 black and 3 yellow balls while another bag has 5 pink, 6 yellow and 3 blue balls. A bag is selected at random and a ball drawn out of it, then find the probability that the ball drawn is pink.

- (a) $\frac{1}{7}$
 - (b) $\frac{3}{7}$
 - (c) $\frac{2}{7}$
 - (d) 1
 - (e) $\frac{6}{7}$
-

Q139. A shopkeeper marked up of a shirt 60% above the cost price and sold at the discount of 25%, and made a profit of Rs.950. If the cost price of pant is 40% more than that of shirt and profit of both is same, then find the selling price of pant.

- (a) Rs.6600
- (b) Rs.7200
- (c) Rs.6000
- (d) Rs.7600
- (e) Rs.8400

Q140. Harsh and Dev planned to meet each other. Dev starts to travel from point A to B at the speed of 42 kmph at 10:00 AM and Harsh starts from point B to A at the speed of 28 kmph at 12:00 PM. If they meet at 2: 30 PM, find the distance between A and B.

- (a) 216 km
 - (b) 259 km
 - (c) 244 km
 - (d) 263 km
 - (e) 228 km
-

ECGC PO Memory Based (Solutions)

Solutions (1-4): In this input output question one number and one word are arranged in each step following a certain pattern. Let us understand the logic behind it-

For Words: Words are arranged according to the place value of the last letter in the alphabetical series from right end. The word which has the last letter, which comes 1st in alphabetical series, is arranged first and so on. For example, "music guide" in which we can see that "c" and "e" are last letters of both words but c comes 1st, so "music" will be arranged 1st.

For Numbers: They are arranged in increasing order. The prime numbers are arranged first followed by composite numbers from left to right in left end.

Input: asset 17 48 good back 23 down 61 25 source 16

Step I: 17 asset 48 back 23 down 61 25 source 16 good

Step II: 17 23 asset 48 back down 61 25 16 source good

Step III: 17 23 61 asset 48 down 25 16 back source good

Step IV: 17 23 61 16 asset 48 25 down back source good

Step V: 17 23 61 16 25 48 asset down back source good

S1. Ans.(c)

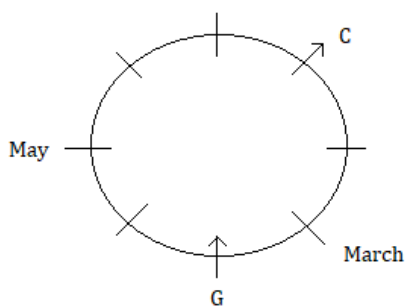
S2. Ans.(d)

S3. Ans.(b)

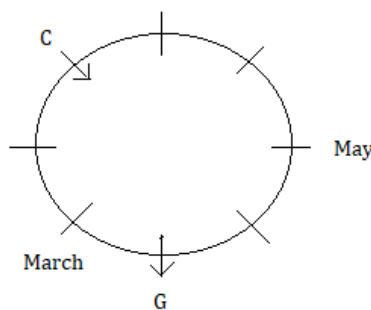
S4. Ans.(e)

Solutions (5-8): From the given statements, C sits third to the right of G, who was born in the month having more than 30 days. Both C and G faces opposite **Solution**sto each other. The one who was born in May sits third to the left of C. Only two persons sit between the one who was born in May and the one who was born in March. C was not born in the month having 31 days.

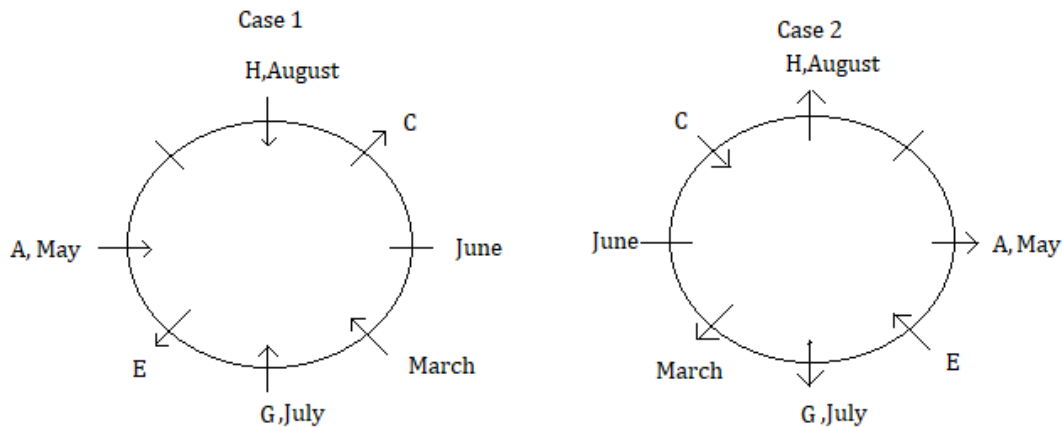
Case 1



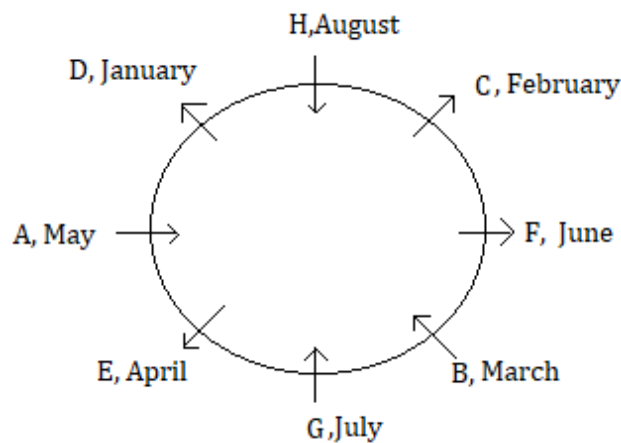
Case 2



H sits third to the right of the one who was born in March. A sits second to the right of H and opposite to the one who was born in June. H was born in the month immediately after the month in which G was born. H and A both faces same direction. H was not born in the month having 28 days. The one who was born in August sits third to the right of E, who was born in the month immediately after the month in which B was born. B was not born in February.



E sits second to the left of the one who was born in January, who sits third to the left of F. The one who was born in February faces outside. E was born one of the months after C. So, case 2 get eliminated. The final arrangement is-



S5. Ans.(a)

S6. Ans.(d)

S7. Ans.(a)

S8. Ans.(c)

Solutions (9-10): Given series- L 9 8 * S A & 2 T 9 G & V 5 H % @ Q E # 9 1 © E ∞ 2 \$ U 7 Y 4 * O 7

STEP I- The alphabet which is immediate followed by a symbol and immediately preceded by a number are arranged in between % and @.

L 9 8 * S A & 2 T 9 & V 5 % G H @ Q E # 9 1 © E ∞ 2 \$ U 7 Y 4 * O 7

STEP II- All the numbers, letters and symbols which appears more than once are eliminated.

L 8 S A T V 5 % G H @ Q # 1 © ∞ \$ U Y 4 * O

STEP III- All the numbers are arranged in the end of the series (after O) in ascending order after One is added in odd number and one is subtracted in even number.

L S A T V % G H @ Q # © ∞ \$ U Y * O 2 3 6 7

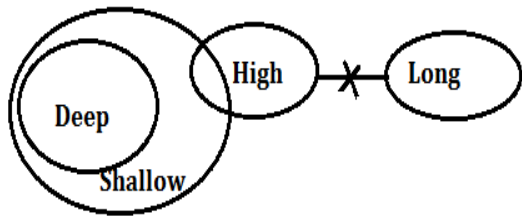
S9. Ans.(c)

S10. Ans.(b)

Solutions (11-13):

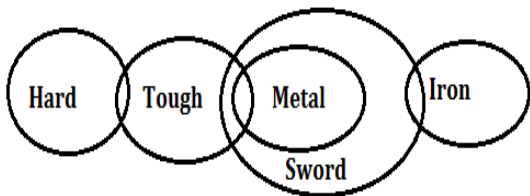
S11. Ans.(e)

Sol.



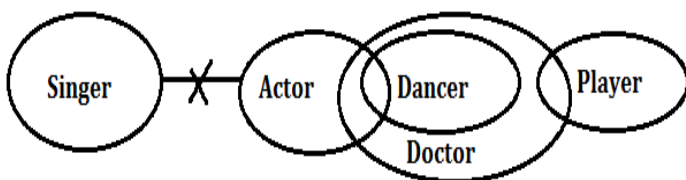
S12. Ans.(c)

Sol.



S13. Ans.(d)

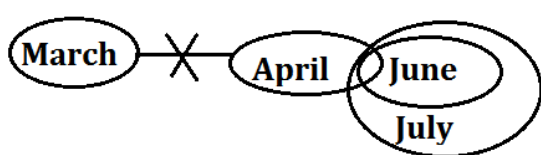
Sol.



Solutions (14):

S14. Ans.(d)

Sol.



Solutions (15-16):

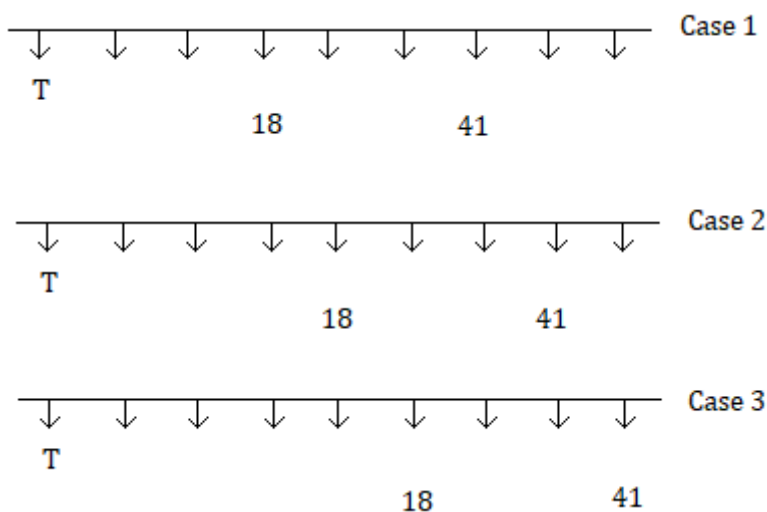
S15. Ans.(b)

Sol. "Fallout" means adverse effect. we need to find the option which shows the adverse results after new policy approved by Delhi Government. Option (b) is the right answer as it clearly states defy by opposition.

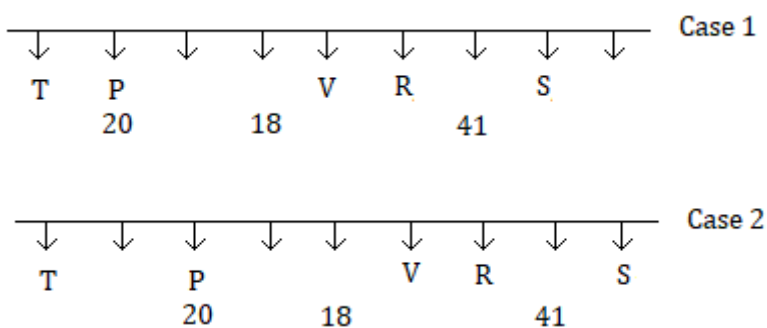
S16. Ans.(d)

Sol. Nothing is discussed about favour of central government in above passage. Option (II) can be assumed as government has reduced the minimum age from 25 to 21 and it is obvious to increase the revenue of state. Revenue comparison of Delhi with other states has not been discussed in the above statement.

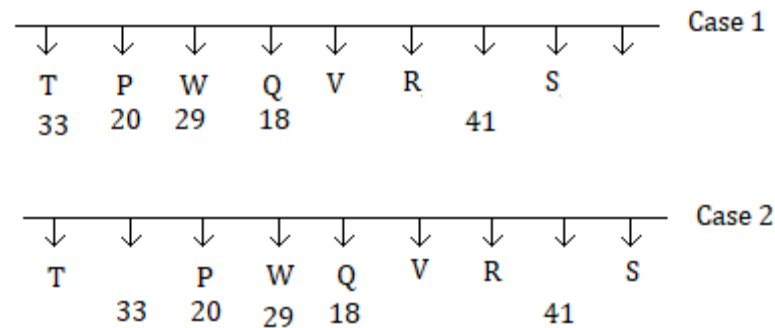
Solutions (17-20): From the given statements, no one sits to the right of T. More than four persons sit between T and the one who is the oldest among them. Two persons sit between the one who is the oldest and the one who is the youngest. Here we get 3 possible cases – Case 1, Case 2 and Case 3.



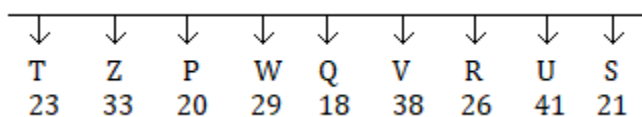
V sits to the immediate left of the one who is the youngest. R and S are immediate neighbours of the one who is the oldest. From this condition Case 3 is ruled out now. P whose age is 20 years sits fourth to the right of R.



W is of 29 years. W and Q sit adjacent to each other. The one whose age is 33 sits second to the right of the one whose age is 29.



Z is not the oldest. The one whose age is 38 sits to the immediate right of the one whose age is 26 years. More than four persons sit between the one whose age is 23 and S. Here Case 1 is ruled out now and the final arrangement is-



S17. Ans.(d)

S18. Ans.(e)

S19. Ans.(e)

S20. Ans.(d)

Solutions (21-25): From the given statements, the sum of the present age of B and E is 106 years. E is younger to B. The person who is 3rd youngest likes Mango. The sum of the present age of the one who likes apple and the one who likes banana is 87 years. The number of persons born before A is same as the number of persons born after the one who likes Fig. Neither B nor E likes Fig. A is not the youngest person. So, there will be two possible cases--

Case-1			
Years	Ages	Persons	Fruits
1948	73	B	
1956	65		
1963	58		Apple/Banana
1971	50	A	Fig
1980	41		Mango
1988	33	E	
1992	29		Apple/Banana

Case-2			
Years	Ages	Persons	Fruits
1948	73		
1956	65	B	
1963	58		Apple/Banana
1971	50	A	Fig
1980	41	E	Mango
1988	33		
1992	29		Apple/Banana

G is younger to F. Neither G nor F likes Apple and Banana. The difference between the present ages of the one who likes Banana and the one who likes Litchi is 4 years.

Case-1			
Years	Ages	Persons	Fruits
1948	73	B	
1956	65	F	
1963	58		Apple
1971	50	A	Fig
1980	41	G	Mango
1988	33	E	Litchi
1992	29		Banana

Case-2			
Years	Ages	Persons	Fruits
1948	73	F	
1956	65	B	
1963	58		Apple
1971	50	A	Fig
1980	41	E	Mango
1988	33	G	Litchi
1992	29		Banana

G does not like Litchi. So, from this case-2 gets eliminated. D does not like Banana and F does not like Guava. So, the final arrangement is-

Years	Ages	Persons	Fruits
1948	73	B	Guava
1956	65	F	Grapes
1963	58	D	Apple
1971	50	A	Fig
1980	41	G	Mango
1988	33	E	Litchi
1992	29	C	Banana

S21. Ans.(d)

S22. Ans.(d)

S23. Ans.(d)

S24. Ans.(c)

S25. Ans.(a)

S26. Ans.(c)

Sol. Legal action and fix rate is proper course of action but life imprisonment will be extreme course of action.

S27. Ans.(e)

Sol. Both the Statement I and II are effects of some common causes. And cause is increasing case of covid 19. Central government has been trying to increase medical infrastructure. And players have withdrawn their name due to fear.

S28. Ans.(d)

Sol. Both the Statements I and II are effects of independent causes. Bihar has good result may be due to students have studied well or due to education system get improved in Bihar. Transport facility has been improved may be due to good governance.

Solutions (29-33): From the given statements, S neither lives on odd numbered floor nor in odd numbered flat. From here we get two possibilities i.e., Case 1 and Case2. B lives in east with respect to S. There is one floor gap between B and R and both have same flat number. The number of people lives in south west with respect to R is same as the number of people lives in north east with respect to P, who does not live in Even number flat.

Floor	Case 1			Case 2		
	Flat 1	Flat 2	Flat 3	Flat 1	Flat 2	Flat 3
4		S	B			R
3	P					
2			R		S	B
1				P		

There are two floors gap between P and D. From here Case 1 is ruled out but one more possibility added now i.e. Case 2a. C lives just below the D's floor.

Floor	Case 2			Case 2a		
	Flat 1	Flat 2	Flat 3	Flat 1	Flat 2	Flat 3
4		D	R	D		R
3	C/	C/	C/	C/	C/	C/
2		S	B		S	B
1	P			P		

Q lives in east with respect to C. Y lives just above floor of A who lives on an even numbered floor. A and Y lives in the same flat number. So, position of C is fixed. Both Z and R does not live in the same floor and same flat number. Flat-1 of any floor is not vacant. So, case-2 will be eliminated. Now we can see all ten persons are shifted to their flats and remaining two flats are vacant. So, the final arrangement will be like this –

Floor	Flat 1	Flat 2	Flat 3
4	D	Vacant	R
3	Y	C	Q
2	A	S	B
1	P	Z	Vacant

S29. Ans.(e)

S30. Ans.(d)

S31. Ans.(e)

Sol. All are living in same flat number except Z.

S32. Ans.(c)

S33. Ans.(b)

Solutions (34-35):

S34. Ans.(b)

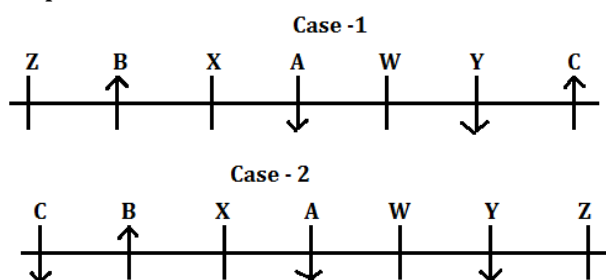
Sol. From II –

Floor	Persons
8	
7	
6	
5	Q
4	W
3	R
2	
1	T

From statement II, Q lives on 5th floor.

S35. Ans.(d)

Sol. From I and II- There are two possible cases-



Y sits second to the left of Z. By this condition both cases are cancelled. So we can't determine the person who sits immediate left of Y.

Solutions (36-39):

S36. Ans.(b)

Sol. Condition (i) applied, 'RANTED' = '23£972'

S37. Ans.(c)

Sol. Condition (ii) applied, 'PIRATE' = '7%239ϕ'

S38. Ans.(d)

Sol. Condition (iii) applied, 'ANTHEM' = '8£9©78'

S39. Ans.(b)

Sol. Condition (iv) applied, 'INHALE' = '£%3©76'

S40. Ans.(a)

Sol. Given word- CONSTITUTION

After applied given condition- BPMRSJSVSJPM

Eliminated repeated letters- BJMPRSV

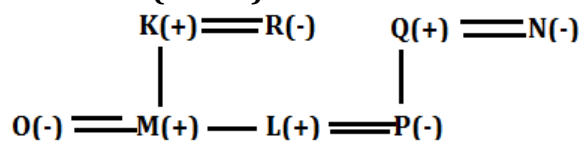
No. of pairs- RS

S41. Ans.(a)

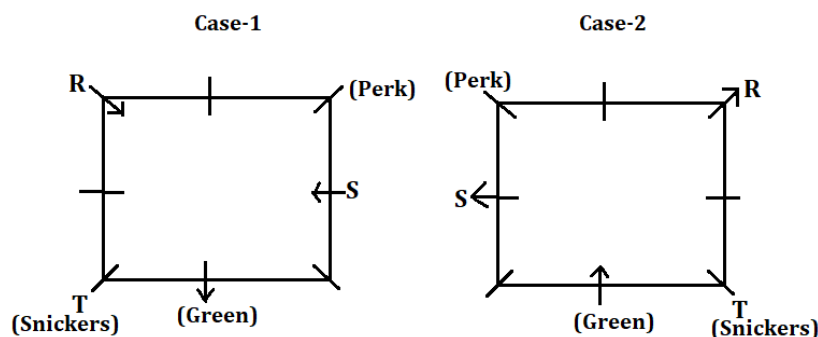
Sol. Only 1st Statement diminishes the advisory by Health Ministry as healthy food has been suggested. Guests are attending wedding, but they are following all norms and wearing masks. Trade Unions are also following guidelines. Yoga is good for health. Wearing mask has been advised but its black marketing is not the inference in given statement.

S42. Ans.(e)

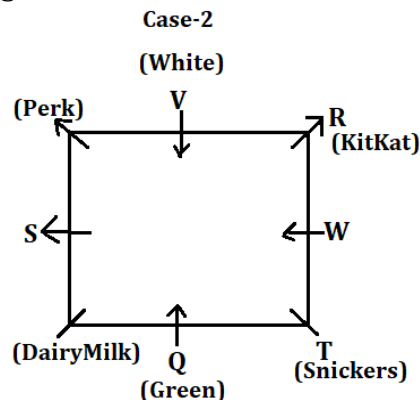
Sol. Only I can be assumed as case is in Supreme Court regarding OTT represented by Solicitor General and if something is creating problem or result of it is not good then only Government is presenting this case in Supreme Court. There is nothing mentioned and discussed about any producer or director, so II cannot be assumed. (III) is a suggested course of action, it is not an assumption.

Solutions (43-44):**S43. Ans.(c)****S44. Ans.(a)**

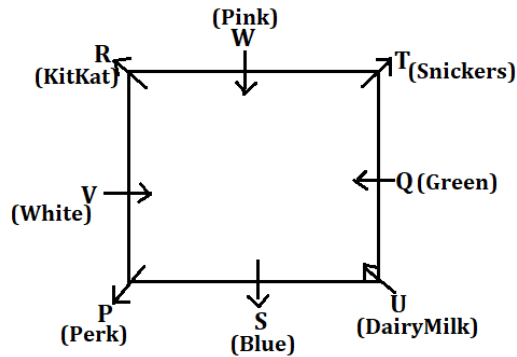
Solutions (45-48): R sits third to the right of S. The one who has Green balloon sits third to the right of R. S does not have Green balloon. There are two possibilities. T has Snickers and sits on the immediate right of the one who has Green balloon. The one who has Perk sits opposite to the one who has Snickers. R does not have Perk.



W sits third to the right of the one who has Perk. The one who has White balloon sits second to the right of W. The one who has White balloon faces Q. The one who has KitKat sits third to the right of Q. The one who has Dairy Milk sits third to the right of V. From this condition, case-1 will be eliminated.



The one who has Pink balloon sits third to the right of U, who faces inside. P does not have Blue balloon. V and T face opposite direction. The Final arrangement is-



S45. Ans.(a)

S46. Ans.(a)

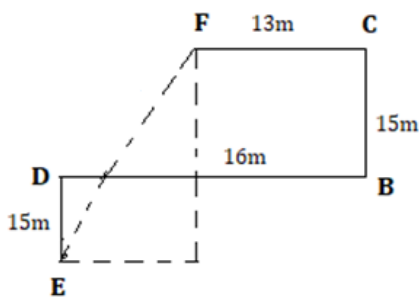
S47. Ans.(b)

S48. Ans.(e)

Solutions (49-50):

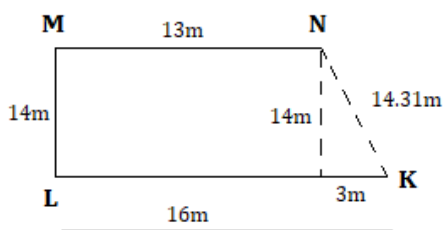
S49. Ans.(e)

Sol.



S50. Ans.(c)

Sol.



S51. Ans.(c)

Sol. Evidence in support of the given answer can be found in the following statement, 'Contactless assessment will minimise the interface between the assessing officer and the assessee, and improve compliance. Tax officers will also desist from making high-pitched assessments in their zeal to meet collection targets.'

Compliance means the state or fact of according with or meeting rules or standards.

Zeal means great energy or enthusiasm in pursuit of a cause or an objective.

Flouting means openly disregard (a rule, law, or convention).

S52. Ans.(b)

Sol. Eminently means to a notable degree; very.

Renowned means known or talked about by many people; famous.

Meagre means lacking in quantity or quality.

Going through the meaning of the given options, it can be clearly seen that the correct answer choice would be option (b)

S53. Ans.(a)

Sol. From the given reasons, only (ii) is mentioned in the passage. Evidence supporting given argument can be found in the following statement, '*Corruption depends on human interface and the misuse of arbitrary powers by taxmen.*'

S54. Ans.(d)

Sol. Taking hint from the preceding sentence which is talking about how tax evaders can be tracked. So, following the same idea in the given sentence, it can be seen that 'traced' is the most appropriate filler choice.

S55. Ans.(b)

Sol. From the given suggestions only second is mentioned in the passage. Evidence in support of the given argument can be found in the following statement, '*the way to augment direct tax collections is to clean up the goods and services tax (GST), which generates audit trails to income currently escaping tax.*'

S56. Ans.(c)

Sol. Desist means stop doing something; cease or abstain.

So, from the given options, 'continue' is opposite in meaning to the given word. Whereas, 'abstain' and 'cease' are its synonym.

S57. Ans.(b)

Sol. Refer to the following statement for supporting arguments:

Option (a): *Nearly 66% of the total tax collections in the country come from indirect taxes that are borne by the rich and poor alike.*

Option (b): *Data analytics must be used to track the physical volumes of raw materials along their production chain ending in tax-evaded goods.*

Option (c): No information is provided in the passage to support the given statement.

Going through the given statements it can be seen that correct answer choice would be option (b).

S58. Ans.(c)

Sol. From the given statements, only third statement can be inferred from the given passage. Evidence in support of the given answer can be found in the following statement, '*Craving for a modest amount of autonomy unites principals and teachers from across the sharply divided segments of our vast network of schools.*'

S59. Ans.(c)

Sol. Accrued means received or accumulated in regular or increasing amounts over time.

Dimmed means make or become less intense.

Pervades means be present and apparent throughout.

Appeal means make a serious, urgent, or heartfelt request.

Going through the meaning of the given options and taking hint from the sentence preceding the given sentence which is talking about how media is biased toward rural areas, it can be seen that 'pervades' is the most appropriate filler choice.

S60. Ans.(a)

Sol. From the given options, only first can be inferred from the given passage. Supporting evidence can be found in the following statement, *'For those serving in government-run schools, there is no provision in the rule book for freedom on any count that matters. No matter how senior you are, your job is to silently follow the orders and circulars issued by the directorate and the examination board.'*

S61. Ans.(a)

Sol. From the given factors only first is mentioned in the passage. Evidence in support of the given answer can be found in the following statement, *'This analogy applies to the state of children's education. Decisions pertaining to it are dependent on structures designed to overlook local factors. These structures were forged to ensure total compliance, no matter how vast the system became and how diverse remained the demands served by it.'*

S62. Ans.(b)

Sol. From the given reasons, only second and third have been mentioned in the passage. Refer to the following statement for supporting answer, *'Many experts think that the uneven spread is merely a matter of poor reporting from villages. They smile if you tell them that many Panchayats are actively guarding their territories. It is not surprising that the awareness and resilience demonstrated by many villages is largely ignored in the media.'*

S63. Ans.(c)

Sol. From the given options, only (i) and (ii) are mentioned in the passage. Evidence supporting given argument can be found in the following statement, *'That is why all schools, urban and rural, have stayed closed since the last week of March. Cooked mid-day meals served to children at school have been replaced in many States by the distribution of grain and money to their children.'*

S64. Ans.(c)

Sol. From the given options, only (c) is discussed in the given passage. Refer to the following statement for supporting evidence, *'If village schools had some autonomy, many would have found local conditions good enough to allow children to come for their meals and spend some time studying.'*

S65. Ans.(b)

Sol. Adversity means a difficult or unpleasant situation.

Contender means a person or group competing with others to achieve something.

Hardship means severe suffering or privation.

Effervescent means vivacious and enthusiastic.

S66. Ans.(c)

Sol. From the given sentences only A-D can be connected to form a meaningful sentence. The sentence thus formed is:

The Council of Scientific and Industrial Research is working on developing "mega labs" To ramp up testing for COVID-19 as well as improve the accuracy rate.

S67. Ans.(a)

Sol. From the given options, only A-E and B-D can be connected to form a contextually meaningful and grammatically correct sentence.

The sentences thus formed are:

Independence Day celebrations will be held at the Delhi Secretariat instead of the Chhatrasal Stadium this year in accordance with social distancing norms.

A small function was being organized at the Players Building with 100 dignitaries, including Chief Minister, the Cabinet of Ministers and Members of Parliament.

S68. Ans.(d)

Sol. Reading through the given sentences it can be clearly seen that (C) is talking about the need to firmly deal with attack on democracy, and sentence (D) is presenting with the outcome if the requisite steps are not taken. On the basis of this information both the given sentences can be linked to form a contextually meaningful sentence. The sentence thus formed is:

If attack on democracy is not dealt with requisite degree of firmness, it may affect national honour and prestige in the comity of nations.

S69. Ans.(b)

Sol. From the given sentences, B-F and B-E can be linked together to form a contextually meaningful sentence. But, B-E will induce a grammatical error in the sentence due to disagreement of tenses in both parts. So, only B-F is the most appropriate answer choice. The sentence thus formed is:

President Ram Nath Kovind said while India believes in peace, it is also capable of giving a befitting response to any attempt of aggression.

S70. Ans.(a)

Sol. From the given sentences, only A-E and B-D can be connected to form grammatically correct and contextually meaningful sentence. The sentences thus formed are:

The undergraduate political science students were allegedly sent mock test papers instead of exam papers for a short period during their open book exam

A day before the Independence Day celebration, the city has been turned into a fortress with multiple layers of security.

S71. Ans.(d)

Sol. As the given sentence is talking about installation of fibre cable to connect Andaman and Nicobar Islands with the rest of India, it can be seen that 'outskirts' is incorrectly used. Going through the options, it is found that 'mainland' which means relating to or forming the main part of a country or continent, is the correct replacement.

S72. Ans.(a)

Sol. Given sentence is talking about the **responsibility** of government for development of border linked areas. Also, given sentence is in passive voice. So, the usage of 'oblige' may be contextually correct but it is not grammatically correct. So, going through the options, it can be seen that only 'committed' satisfies the given criteria and hence, the correct answer choice.

S73. Ans.(c)

Sol. Reading up to the given paragraph it can be seen that given passage is talking about infrastructure development in Andaman and Nicobar Islands. So, in accordance with the main idea of the passage, given sentence too should be about increasing the capacity of ports in this region. 'Enactment' means the process of passing legislation. So, this does not fit the blank contextually and must be replaced with 'enhancement' which means an increase or improvement in quality, value, or extent.

S74. Ans.(e)

Sol. Here, 'competitive' which means competitive prices, services, etc. are as good as or better than other prices, services, etc., is correctly used here. So, the correct answer choice is option (e).

S75. Ans.(c)

Sol. Given sentence is talking about the prerequisite for a self-reliant country which is improved connectivity in the region. So, on the basis of this information and going through the given options, it can be seen that 'waterways' is the most appropriate replacement.

S76. Ans.(a)

Sol. From the given starters, both (i) and (iii) can be used to connect the given sentences. New sentence thus formed will be:

(i) *Due to Delhi governments' order of conversion of five hotels into extensions of five private hospitals, there is increase in the number of beds available for COVID-19 patients.*

(ii) *To increase the number of beds available for COVID-19 patients, Delhi government has ordered conversion of five hotels into extensions of five private hospitals.*

Hence, the correct answer choice would be option (a).

S77. Ans.(d)

Sol. If we read the given statements carefully, we can see that first statement is the 'cause' and second is its 'effect'. So, on the basis of this we can see that only (iii) can be used to merge the given sentences into a single sentence. The sentence thus formed will be: 'Doing away with permit system for inter-State movement of vehicles, there shall be no restriction on movement within and outside a State'

S78. Ans.(b)

Sol. From the given options, only option (ii) can be used to connect the given sentences to form a single one. The final sentence thus formed will be: '*Reaping the fruit of India's effort to ensure that tensions did not rise further, the standoff along the Line of Actual Control with China would be resolved through diplomatic dialogue.*' So, the correct answer choice is option (b).

S79. Ans.(c)

Sol. From the given starters, both (ii) and (iii) can be used to connect the given sentences to form a meaningful one. The sentences thus formed will be:

(i) *Following a plea seeking action against restaurants and commercial establishments causing noise, air and water pollution, the National Green Tribunal directed the New Delhi Municipal Council and the Delhi Pollution Control Committee to furnish an action-taken report.*

(ii) *Mindful of plea filed against restaurants and commercial establishments causing noise, air and water pollution, the National Green Tribunal directed the New Delhi Municipal Council and the Delhi Pollution Control Committee to furnish an action-taken report.*

So, the correct answer choice is option (c).

S80. Ans.(b)

Sol. From the given options, only (ii) can be used to connect the given sentences. The final sentence thus formed will be: *'With Goa witnessing a huge influx of people in the last couple of days, the government is planning to go back to its previous system of issuing travel passes.'* Hence, the correct answer choice is option (b).

S81. Ans.(c)

Sol. Given part is a special of paired adjectives in which adjectives are used in the following sequence, Quantity>Opinion>Size>Age>Shape>Color>Origin>Material>Purpose. So, on the basis of this information it can be seen that correct replacement would be option (i).

S82. Ans.(a)

Sol. Here in the highlighted part usage of 'at' is incorrect, instead it should be 'with' because 'go along with' is a phrasal verb which means consent or agree to (a person or proposal). So, from the given options appropriate replacement would be option (ii).

S83. Ans.(e)

Sol. There is no error in the highlighted phrase. So, the correct answer choice would be option (e).

S84. Ans.(d)

Sol. Taking hint from the usage of 'yesterday' in the given sentence it can be seen that given sentence should be in past tense. So, 'have' is incorrectly used here. So, from the given options, both (ii) and (iii) can be used to replace the given phrase.

S85. Ans.(b)

Sol. In the highlighted part usage of 'in' is incorrect instead it should be 'by' because certain verbs take fixed preposition after them. So, from the given replacement both (i) and (ii) can be used to replace the given phrase as both 'is' and 'was' can be used in the given sentence.

S86. Ans.(c)

Sol. (B) and (C) cannot start the sentence as they begin with a verb. And if we go by options the only starter is (D). (D) then will be followed by (B) because subject is followed by a verb and the appropriate verb would be "are". (B) then would be followed by another clause hence, subject of that clause which is in (A). (A) then, is followed by (C). The correct arrangement would be DBAC

Hence, answer would be option (c).

The sentence thus formed is:

While the Dwarapalas from Tamil Nadu are said to be from the 15th century, the Nagaraja, dated 6th to 8th century, is from Rajasthan or Madhya Pradesh.

S87. Ans.(a)

Sol. (D) would start the sentence as it has subject and verb of the sentence. Last word of (D) is party which mandates it would be followed by (C) which further will be followed by (B). In the last would come (A)

The correct arrangement would be DCBA

Hence, answer would be option (a).

The sentence thus formed is:

Both India and Australia are party to the UNESCO 1970 Convention on the Means of Prohibiting and Preventing the Illicit Import, Export and Transport of Ownership of Cultural Property.

S88. Ans.(d)

Sol. It is clear that (B) would start the sentence. And if we go through options, we option (a), (b) and (c) get eliminated.

The correct arrangement would be BACD

Hence, answer would be option (d).

The sentence thus formed is:

Besides Capt. Amarinder, his son Raninder Singh and son-in-law Raminder Singh were also accused in the case.

S89. Ans.(b)

Sol. The sentence starts with (D), followed by (A). (A) then will be followed by (B) which further will be followed by (C).

The correct arrangement would be DBAC

Hence, answer would be option (b).

The sentence thus formed is:

The amendments to the transparency legislation were enacted in July, and gave the Centre the power to determine the tenure, salary and perks of the State and Central Information Commissioners.

S90. Ans.(a)

Sol. The sentence starts with (D), followed by (C). (C) then will be followed by (B) which further will be followed by (A).

The correct arrangement would be DCBA.

Hence, answer would be option (a).

The sentence thus formed is:

The Rules to the RTI Amendment Act were notified in October, and reduced the tenure of the Commissioners from five to three years, while also downgrading their status and allowances.

S91. Ans.(c)

Sol. Male employees who are promoted in SBI = $(800 + 700) \times \frac{40}{100} \times \frac{2}{5} = 240$

Male employees who are promoted in UBI = $240 \times \frac{200}{100} = 480$

Female employees who are not promoted in SBI = $700 - \left(\left((800 + 700) \times \frac{40}{100} \right) - 240 \right)$
 $= 340$

Female employees who are not promoted in UBI = $200 - \left(\left((520 + 200) \times \frac{80}{100} \right) - 480 \right)$
 $= 104$

Required Sum = $340 + 104 = 444$

S92. Ans.(a)

Sol. Total promoted employee from PNB & BOB together = $(680 + 840) \times \frac{60}{100} + (480 + 720) \times \frac{50}{100}$
 $= 912 + 600$
 $= 1512$

Average number of male employees from SBI & BOB = $\frac{800+480}{2} = 640$

Required difference = $1512 - 640 = 872$

S93. Ans.(d)

Sol. Total employee promoted from UCO = $(400 + 600) \times \frac{80}{100} = 800$

Total employee promoted from SBI = $(800 + 700) \times \frac{40}{100} = 600$

Required percentage = $\frac{800-600}{600} \times 100 = 33\frac{1}{3}\%$

S94. Ans.(c)

Sol. Required difference = $(680 + 840) \times \frac{60}{100} \times \frac{(9-7)}{(9+7)} = 114$

S95. Ans.(b)

Sol. Ratio of total male employee to female employee promoted from UCO = 3 : 5

Total female employee promoted from UCO = $(400 + 600) \times \frac{80}{100} \times \frac{5}{8} = 500$

Total employee promoted from BOB = $(480 + 720) \times \frac{50}{100} = 600$

Required percentage = $\frac{600}{500} \times 100 = 120\%$

S96. Ans.(e)

Sol. $\frac{1}{8} \times 1440 - 867 + 721 = ?$

$180 - 867 + 721 = ?$

$? = 34$

S97. Ans.(d)

Sol. $64 + 624 - ? = 296$

$? = 392$

S98. Ans.(c)

Sol. $289 + 896 + 144 - 275 = ?$

$? = 1054$

S99. Ans.(a)

Sol. $3 \times 98 + \frac{4}{3} \times 33 - 69 = ?$

$? = 269$

S100. Ans.(b)

Sol. $33 + \frac{1}{16} \times 4096 = ? + 238$

$? = 33 + 256 - 238$

$? = 51$

Solutions (111-115):

Let students who play only Football be $20x$.

So, students who play only Badminton = $10x$

And, students who play only Cricket = $25x$

Now, students who play all 3 games together = $5x$

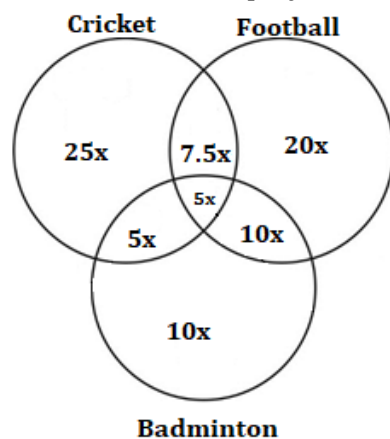
Now, students who play Cricket and Football but not Badminton = $7.5x$

And, students who play Football and Badminton together = $15x$

Now, students who play Football and Badminton but not Cricket = $10x$

Now, students who play both Cricket and Badminton together = $10x$

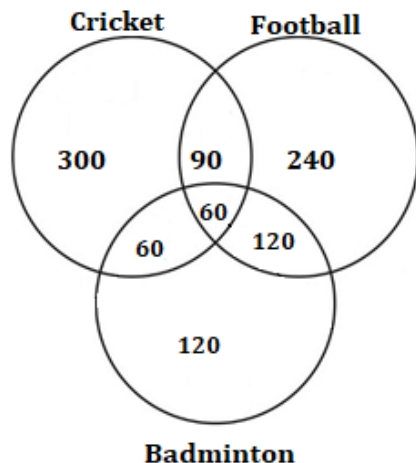
So, students who play Cricket and Badminton but not Football = $5x$



ATQ,

$$25x + 7.5x + 20x + 5x + 5x + 10x + 10x = 990$$

$$x = 12$$



S101. Ans.(a)

Sol. Required number of students = $90 + 240 + 60 + 120 = 510$

S102. Ans.(d)

Sol. Students playing Cricket and Football together = $90 + 60 = 150$

Required difference = $240 - 150 = 90$

S103. Ans.(d)

Sol. Required number of students = $90 + 60 + 60 + 120 = 330$

S104. Ans.(c)

Sol. Total number of students who play Cricket = $300 + 90 + 60 + 60 = 510$

Total number of students who play Badminton = $60 + 60 + 120 + 120 = 360$

$$\text{Required \%} = \frac{510-360}{360} \times 100 = 41\frac{2}{3}\%$$

S105. Ans.(d)

Sol. Total number of students who play exactly 1 more game along with Cricket = $90 + 60 = 150$

Total number of students who play exactly 2 more game along with Football = 60

Required difference = $150 - 60 = 90$

S106. Ans.(d)

$$\text{Sol. } 40 \times \left(1 - \frac{x}{40}\right)^3 = 20.48$$

$$\left(1 - \frac{x}{40}\right)^3 = \frac{20.48}{40}$$

$$\left(1 - \frac{x}{40}\right)^3 = \frac{512}{1000}$$

$$1 - \frac{x}{40} = \frac{8}{10}$$

= 8 liters

S107. Ans.(b)

Sol. Let the length and breadth of rectangle be 'l' cm & 'b' cm respectively.

Let the side of a square be 'a' cm.

Perimeter of square = 48 cm

$$4a = 48 \text{ cm}$$

$$a = 12 \text{ cm}$$

$$\text{So, } l = 12 \text{ cm}$$

ATQ,

$$b = 12 - 4 = 8 \text{ cm}$$

$$\text{Req. area} = 12 \times 8 = 96 \text{ cm}^2$$

S108. Ans.(a)

Sol. Total age of A, B, & C = $48 \times 3 = 144 \text{ years}$

Let age of A & C is $3x$ & $5x$ respectively.

$$\text{Age of B} = 3x \times \frac{4}{3} = 4x$$

ATQ,

$$3x + 4x + 5x = 144$$

$$12x = 144$$

$$x = 12$$

$$\text{Req. difference} = (4 \times 12 - 2) - (3 \times 12 + 5)$$

$$= 46 - 41 = 5 \text{ years}$$

S109. Ans.(d)

Sol. Profit sharing ratio of P, Q & R

$$28000 \times 6 + \left(28000 \times \frac{125}{100}\right) \times 6 : 16000 \times 6 + 10000 \times 6 : 20000 \times 12$$

$$378000 : 156000 : 240000$$

$$63 : 26 : 40$$

$$\text{Req. difference} = \frac{3120}{40} \times (63 - 26) = \text{Rs. } 2886$$

S110. Ans.(e)

Sol. Let speed of stream be $5x$ km/h

$$\text{And speed of boat in still water} = 5x \times \frac{160}{100} = 8x$$

Let distances be 'd' km

$$\frac{d}{5x + 8x} + \frac{d}{8x - 5x} = 32$$

$$= \frac{16d}{39x} = 32$$

$$d = 78x$$

$$\text{Req. time} = \frac{79x}{8x} = 9\frac{3}{4} \text{ hours}$$

Solutions (121-125):

School	Boys	Girls	Total
A	$22 \times 28 = 616$	$1200 - 616 = 584$	$24 \times 50 = 1200$
B	$15 \times 28 = 420$	$750 - 420 = 330$	$15 \times 50 = 750$
C	$30 \times 28 = 840$	$1400 - 840 = 560$	$28 \times 50 = 1400$
D	$16 \times 28 = 448$	$600 - 448 = 152$	$12 \times 50 = 600$
E	$17 \times 28 = 476$	$1050 - 476 = 574$	$21 \times 50 = 1050$

S111. Ans.(e)

Sol. Total girls from school B and D together $= \frac{27}{100} \times 5000 - \frac{31}{100} \times 2800 = 482$

Required % $= \frac{482}{40 \times 50} \times 100 = 24.1\%$

S112. Ans.(e)

Sol. Required ratio $= (560 + 152) : (330 + 574)$
 $= 89 : 113$

S113. Ans.(e)

Sol. Total students in school B in year 2020 $= \frac{120}{100} \times 330 + \frac{6}{7} \times 420 = 756$

Required percentage $= \frac{756 - 600}{600} \times 100 = 26\%$

S114. Ans.(d)

Sol. Total boys who failed the exam from school A $= \frac{25}{1100} \times 616 = 14$

Total girls who failed the exam from school A $= 12 \times 7 - 14 = 70$

Required % $= \frac{70}{560} \times 100 = 12.5\%$

S115. Ans.(a)

Sol. Required average $= \frac{1}{3} \times \frac{(30+16+17)}{100} \times 2800 = 588$

S116. Ans.(e)

Sol. (i) $2x^2 - 12x + 16 = 0$

$$2x^2 - 8x - 4x + 16 = 0$$

$$2x(x - 4) - 4(x - 4) = 0$$

$$(x - 4)(2x - 4) = 0$$

$$x = 4, 2$$

$$(ii) 2y^2 - 20y + 48 = 0$$

$$2y^2 - 12y - 8y + 48 = 0$$

$$2y(y - 6) - 8(y - 6) = 0$$

$$(y - 6)(2y - 8) = 0$$

$$y = 4, 6$$

$$y \geq x$$

S117. Ans.(b)

Sol. (i) $x^2 - 3x - 40 = 0$

$x^2 - 8x + 5x - 40 = 0$

$x(x - 8) + 5(x - 8) = 0$

$(x - 8)(x + 5) = 0$

$x = 8, -5$

(ii) $y^2 + 11y + 30 = 0$

$y^2 + 6y + 5y + 30 = 0$

$y(y + 6) + 5(y + 6) = 0$

$(y + 5)(y + 6) = 0$

$y = -6, -5$

$x \geq y$

S118. Ans.(c)

Sol. (i) $2x^2 - x - 3 = 0$

$2x^2 + 2x - 3x - 3 = 0$

$2x(x + 1) - 3(x + 1) = 0$

$(x + 1)(2x - 3) = 0$

$x = \frac{3}{2}, -1$

(ii) $2y^2 - 6y + 4 = 0$

$2y^2 - 2y - 4y + 4 = 0$

$2y(y - 1) - 4(y - 1) = 0$

$(y - 1)(2y - 4) = 0$

$y = 1, 2$

No relation can be established between x and y.

S119. Ans.(c)

Sol. (i) $2x^2 + 14x - 16 = 0$

$2x^2 + 16x - 2x - 16 = 0$

$2x(x + 8) - 2(x + 8) = 0$

$(2x - 2)(x + 8) = 0$

$x = -8, 1$

(ii) $y^2 - y - 12 = 0$

$y^2 - 4y + 3y - 12 = 0$

$y(y - 4) + 3(y - 4) = 0$

$(y + 3)(y - 4) = 0$

$y = -3, 4$

No relation can be established between x and y

S120. Ans.(a)

Sol. (i) $2x^2 - 9x + 10 = 0$

$$2x^2 - 5x - 4x + 10 = 0$$

$$x(2x - 5) - 2(2x - 5) = 0$$

$$(x - 2)(2x - 5) = 0$$

$$x = 2, 2.5$$

(ii) $4y^2 - 12y + 9 = 0$

$$4y^2 - 6y - 6y + 9 = 0$$

$$2y(2y - 3) - 3(2y - 3) = 0$$

$$(2y - 3)(2y - 3) = 0$$

$$y = \frac{3}{2}$$

$$x > y$$

S121. Ans.(d)

Sol. Number of sold Nokia mobile in months of March and December together = $280 + 360 = 640$

Number of sold Samsung Mobile in months of August and October together = $240 + 360 = 600$

$$\text{Required percentage} = \frac{640 - 600}{600} \times 100 = 6\frac{2}{3}\%$$

S122. Ans.(a)

Sol. Nokia mobile sold in months of January, May and August together = $250 + 350 + 300 = 900$

Samsung Mobile sold in months of May, August and October together = $380 + 240 + 360 = 980$

Required ratio = $900:980 = 45:49$

S123. Ans.(c)

Sol. Average Number of Sold Nokia Mobile in all these 6 months = $\frac{250 + 280 + 350 + 300 + 230 + 360}{6}$
 $= \frac{1770}{6} = 295$

Average Number of Sold Samsung Mobile in all these 6 months = $\frac{240 + 350 + 380 + 240 + 360 + 350}{6}$
 $= \frac{1920}{6} = 320$

$$\text{Required difference} = 320 - 295 = 25$$

S124. Ans.(e)

Sol. let number of Nokia and Samsung mobile sold in month of July are $4x$ and $5x$ respectively.

$$\text{Nokia and Samsung mobile sold in Month of July} = \frac{130}{100} \times (280 + 350) = 819$$

ATQ,

$$4x + 5x = 819$$

$$x = 91$$

$$\text{Number of Sold Nokia mobile} = 4x = 364$$

S125. Ans.(b)**Sol.** Number of sold Nakia mobile in months of March, May and December together

$$= 280 + 350 + 360 = 990$$

Number of Sold Samsung Mobile in Months of August, October and December together

$$= 240 + 360 + 350 = 950$$

$$\text{Required percentage} = \frac{990}{950} \times 100 = 104.2\% \approx 104\% \text{ (Approx.)}$$

S126. Ans.(b)**Sol.** The pattern is

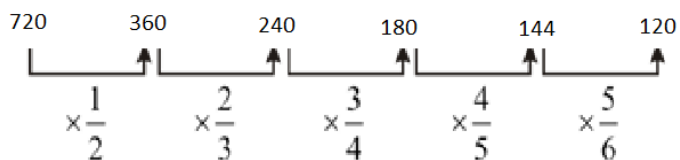
$$11 + 5 \times 7 = 46$$

$$46 + 7 \times 9 = 109$$

$$109 + 9 \times 11 = 208$$

$$208 + 11 \times 13 = 351$$

$$351 + 13 \times 15 = 546$$

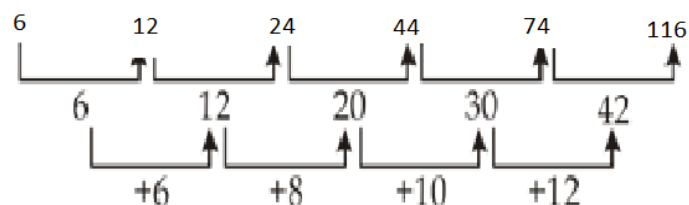
S127. Ans.(a)**Sol.****S128. Ans.(b)****Sol.** $1 + 1^2 = 2$

$$2 + 3^2 = 11$$

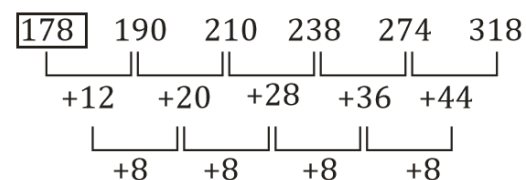
$$11 + 5^2 = 36$$

$$36 + 7^2 = 85$$

$$85 + 9^2 = 166$$

S129. Ans.(c)**Sol.****S130. Ans.(d)****Sol.** Missing number = 178

Pattern of series -



S131. Ans.(d)

Sol. Let the capacity of tank L.C.M. (15,10, 20) = 60 units

$$\text{Efficiency of pipe P1} = \frac{60}{15} = 4 \text{ unit/hours}$$

$$\text{Efficiency of pipe P2} = \frac{60}{10} = 6 \text{ unit/hours}$$

$$\text{Efficiency of pipe P3} = \frac{60}{20} = 3 \text{ unit/hours}$$

$$\text{Tank fill by all the three in three hours} = 13 \times 3 = 39 \text{ units}$$

$$\text{Remaining tank fill by pipe P3} = \frac{60-39}{3} = 7 \text{ hours}$$

$$\text{Total time} = 3 + 7 = 10 \text{ hours}$$

S132. Ans.(e)

Sol. ATQ.

$$1600 = \frac{4000 \times R \times 2}{100}$$

$$R = 10\%$$

C.I. for 2 years

$$14 + 14 + \frac{14 \times 14}{100} = 29.96\%$$

29.96% of 4000

$$\frac{29.96}{100} \times 4000 = \text{Rs. } 1198.4$$

S133. Ans.(d)

Sol. Let marked price and selling price of an article be $13x$ & $10x$ respectively.

$$\text{Cost price of an article} = 10x \times \frac{100}{125} = 8x$$

ATQ.

$$13x - 8x = 450$$

$$x = 90$$

$$\text{Selling price} = 10 \times 90 = \text{Rs. } 900$$

S134. Ans.(a)

Sol. Let the length of the train be 'l' meter, speed of train be 's' m/sec and speed of man be 'm' m/sec

ATQ.

$$\frac{l + 250}{s} = 25$$

A man running in opposite direction at speed of 15m/sec.

$$\frac{l}{m + s} = 15$$

Can't be determined speed of train

S135. Ans.(b)

Sol. Total age of daughters = $4 \times 8 = 32 \text{ years}$ (i)

Total age of daughters and their parents = $6 \times 16 = 96 \text{ years}$ (ii)

Mother is 4 years younger than father

From (i) & (ii)

Father's age = 34 years

Father's age 2 years ago = $34 - 2 = 32 \text{ years}$

S136. Ans.(b)**Sol.** Ratio of efficiency of Amit and Vivek = 5 : 3

Ratio of time taken by Vivek and Sameer alone to complete the work = 5 : 4

Ratio of efficiency of Vivek and Sameer = 4:5

 $\Rightarrow$ Ratio of efficiency of Amit, Vivek and Sameer = 20: 12: 15Total unit of work = $\frac{15}{70} \times 100 \times 35(20 + 15) = 750 \text{ units}$ Req. time = $\frac{750}{27} \times \frac{90}{100} = 25 \text{ days}$ **S137. Ans.(b)****Sol.** Let monthly income be $100x$ Spent on rent = $100x \times \frac{20}{100} = 20x$ spent on food $(100x - 20x) \times \frac{10}{100} = 8x$ spent on cloth = $(100x - 20x - 8x) \times \frac{20}{100} = 14.4x$ Remaining amount = $100x - 20x - 8x - 14.4x = 57.6x$ Share of son = $57.6x \times \frac{5}{9} = 32x$ Share of daughter = $57.6x - 32x = 25.6x$ Required difference = $25.6x - 20x = 5.6x$ $5.6x \times \frac{25000}{100x} = \text{Rs. } 1400$ **S138. Ans.(b)****Sol.** The probability of choosing bag = $\frac{1}{2}$ So, the required probability = $\frac{1}{2}$ (Pink ball from bag 1 + Pink ball from bag 2)

$$= \frac{1}{2} \left(\frac{7}{14} + \frac{5}{14} \right)$$

$$= \frac{12}{28} = \frac{3}{7}$$

S139. Ans.(d)**Sol.** Let cost price of a shirt be $100x$.Marked price of shirt = $160x$ Selling price of shirt = $160x \times \frac{75}{100} = 100x + 950$

$$20x = 950$$

$$x = \frac{95}{2}$$

So, selling price of pant = $100 \times \frac{140}{100} \times \frac{95}{2} + 950 = \text{Rs. } 7600$ **S140. Ans.(b)****Sol.** Let required distance be D km.Distance covered by Dev till 12:00 PM = $42 \times 2 = 84$ Time taken by them to meet each other = $\frac{D-84}{42+28} = 2.5$ So, required distance = $D = 2.5 \times 70 + 84$
 $= 259 \text{ km}$