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Vedic Mathematics

Direction (1-4): Study the following information to answer the given questions:

Twelve persons are sitting around two circular table as one is inscribed in another one. All of them are facing towards the center. A, B, C, D, E, F six persons are sitting around the inner circular table. P, Q, R, S, T, U six persons are sitting around the outer circular table.

Note- The persons of outer circular table are sitting exactly behind the persons sitting around the inner circular table.

B is sitting second to the right of E. R is an immediate neighbour of the one who is sitting behind B. Only one person sits between A and F (either from the left or from the right). A is not an immediate neighbor of B. P is sitting behind F. Only two persons sit between R and T (either from the left or from the right). U is an immediate neighbour of P. D is an immediate neighbour of A. T is not sitting behind D. Q is not an immediate neighbour of R.

Q1. Who among the following person is sitting third to the left of A?
(a) F
(b) E
(c) D
(d) B
(e) None of these

Q2. How many persons are sitting between S and P in the outer circle?
(a) One
(b) More than three
(c) Three
(d) None
(e) Two

Q3. Four of the following are alike in a certain way so form a group which of the following does not belong to the group?
(a) A, P
(b) C, R
(c) E, T
(d) B, U
(e) D, S

Q4. Who among the following person is sitting immediate right of S?
(a) P
(b) T
(c) U
(d) R
(e) Q

Q5. Six persons A, B, C, D, E and F lives on 6 different floors of a same building. Bottommost floor is first, the floor above it is second and so on till topmost floor which is sixth. A lives on odd numbered floor. C lives immediately below A. Two floors gap between floors of C and F. D lives immediately above F. B lives above E, who lives below F. How many persons live below E?
(a) None
(b) One
(c) Two
(d) Three
(e) Four

Q6. Seven letters are arranged in a linear arrangement to form a meaningful word. A is second to the left of I. L is to the left of N. Not more than two letters are placed between I and G. G is placed to the right of I. G is not neighbor of E and D. D and E are placed next to each other. Which letter is placed in exactly middle of the meaningful word so formed. If more than one word is formed mark your option as X?
(a) N
(b) L
(c) X
(d) E
(e) G

Directions (7-9): Study the following information carefully to answer the given questions:

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

INPUT—2538 5628 8516 7524 6325 2645
STEP I- 2358 2568 1568 2457 2356 2456
STEP II- 1568 2356 2358 2456 2457 2568
STEP III- 56 35 35 45 45 56
STEP IV- 11 8 8 9 9 11

Step IV is the last step of the rearrangement. As per the rules followed in the above steps, find out in each of the following questions the appropriate steps for the given input.

Input: 3846 9213 8273 7341 5218 3285 6925 4758

Q7. What will the addition of the numbers which is second, forth, sixth and eight from the left end in step IV?
(a) 32
(b) 23
(c) 38
(d) 40
(e) None of these

Q8. Which of the following would be the difference of the numbers which is 2nd from left end in step I and forth from right end in Step II?
(a) 1138
(b) 1287
(c) 1139
(d) 2125
(e) None of these

Q9. Which of the following element will be 3rd to the left of 7th from the left end in step III?
(a) 34
(b) 37
(c) 25
(d) 35
(e) None of these

Direction (10-10): In the following question a statement is given followed by two more statements numbered as I and II. You have to read both the statement and decide which of them strength which of them strengthens or weakens the statement.

Q10. The company A used to outsource its recruitment process for some years but this year the company has decided to conduct the recruitment process within the Organisation.
I. The employees who have been working in the Organisation are aware of that hard work is required to work in the company.
II. The company has decided to appoint three new persons in its senior level authority for the smooth recruitment process.
(a) Both I and II strengthens
(b) I strengthen while II weakens
(c) II strengthens while I is neutral
(d) Statement I and Statement II is neutral.
(e) Both I and II weakens.

Directions (11-14): Study the following information carefully and answer the questions given below:
Six boxes P, Q, R, S, T and U are placed in a stack one above other. Each contains different number of chocolates viz. 250, 190, 119, 175, 280 and 210. Box P is placed immediately above box R. Three boxes placed between R and the box which contains 250 chocolates. Box which have 175 chocolates is just above the box which have 250 chocolates. One box placed between box T and the box which have 175 chocolates. U contains 210 chocolates. The box which contain
119 chocolates is placed below box U. Three boxes placed between box S and the box which have 119 chocolates. One box is placed between box Q and the box which have 190 chocolates.

Q11. Which box contains 210 chocolates?
(a) U
(b) Q
(c) R

(d) S
(e) P

Q12. Which box is placed at topmost position?
(a) U
(b) Q
(c) R
(d) S
(e) P

Q13. Box R and T together contains how many chocolates?
(a) 399
(b) 369
(c) 294
(d) 309
(e) 400

Q14. How many boxes are placed between box Q and the box which have 119 chocolates?
(a) one
(b) two
(c) three
(d) four
(e) none

Directions (15-17): 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 with 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. Give answer

Q15. Statements: Some tube are bulb. All light are tube. All current are light.
Conclusions:
I. Some Current are bulb
II. Some light being bulb is a possibility.
III. Some tube are not current.
(a) Both I and III follows
(b) either I or II follows

(c) Only II follows
(d) None follows
(e) None of these

Q16. Statements: Some file are copy. Some copy are eraser. No Pen is file.
Conclusions:
I. Some file are eraser
II. All pen can never be copy.
III. No file is eraser
(a) Only I follow
(b) Only II follows
(c) Only III follows
(d) Either I or III follows
(e) None of the above

Q17. Statements: Some file are copy. Some copy are eraser. No Pen is file.
Conclusions:
I. All copy can be pen.
II. Some copy can never be pen.
III. Some eraser being pen is a possibility.
(a) Only I follow
(b) Only II follows
(c) Only III follows
(d) Only II and III follows
(e) None of the above

Directions (18-21): Study the following information carefully and answer the questions given below.
Six persons J, K, L, M, N, O are born in six different years 1946, 1958, 1963, 1971, 1994, 2006. All of them like different colours Red, Black, Orange, Pink, White, Yellow.
Note- All the calculations of the ages are to be done on the basis of year 2019.
The sum of the ages of M and the one who likes Black colour is 86. The one who likes Pink colour was born in an even numbered year. M does not like red colour. The one who likes Pink colour is older than the one who likes Black colour. M does not like Pink colour. K is older than the one who like Pink colour. N likes Orange and was born in an odd numbered

year. The sum of the ages of J and the one who likes Yellow colour is 81. O is younger than the one who likes orange colour. L does not like yellow colour.

Q18. Who among the following likes Red colour?
(a) J
(b) O
(c) M
(d) L
(e) None of these

Q19. How many persons born after O?
(a) Two
(b) Four
(c) None
(d) One
(e) Three

Q20. Which of the following statement is not correct regarding K?
(a) K is younger than M
(b) K likes Yellow
(c) K is elder to J
(d) The one who likes White is younger than K
(e) All are correct

Q21. In which of the following year J was born?
(a) 1994
(b) 1958
(c) 1971
(d) 2006
(e) 1946

Q22. Six persons L, M, N, O, P and Q sit in a linear row adjacent to each other facing north. Three persons sit between Q and P. N sits immediate left of Q. Two persons sit between N and M. How many persons sit to the left of M?
(a) one
(b) two
(c) three
(d) four
(e) None

Q23. Which of the following symbols should replace the sign (@) and (%) respectively in the given expression in order to make the expression L ≥ J and R > J definitely true?
$$L \geq K \geq P = N = J @ U \leq A \% R$$
(a) ≤, =
(b) ≤, ≤
(c) >, ≤
(d) =, <
(e) ≥, <

Q24. Which of the following will be definitely true if the given expression T≥U≥M=N<J=P<Q≤R is definitely true?
(a) T< J
(b) U>M
(c) R>N
(d) R ≥ M
(e) T<P

Directions (25-29): Study the following information carefully and answer the questions given below. Twelve persons are born on three different dates 5, 12, 21 of four different months viz. March, May, September and November. Only one person is born on one date of a month. J was born on 5 of a month having 30 days. Only three persons were born between J and H. H does not born on an even date of a month. As many as persons born after H as born before A. Five persons born between A and D. Only two persons born between F and E. C born on an even date but immediately after K. Six person born between C and B. E born immediately before B. M born on an even date after L but before G.

Q25. How many persons born between C and F?
(a) Two
(b) More than three
(c) Three
(d) One
(e) None

Q26. Who among the following is born immediate before G?
(a) K
(b) L
(c) J
(d) M
(e) D

Q27. H born on which of the following day?
(a) 21 May
(b) 12 March
(c) 5 September
(d) 21 March
(e) 5 May

Q28. Which of the following statements is true?
(a) J and G both were born in same month
(b) F was born on odd date
(c) G was born on 5th
(d) B was born on 21st
(e) All are true.

Q29. In a certain code, numbers from (0-9) are coded as four alphabets i.e. '0389' is coded as 'AACD', '146' coded as 'ABA', then how is '257' coded?
(a) CBA
(b) CDA
(c) BAC
(d) AAD
(e) BCB

Q30. If all the letters of each given words are arranged in alphabetical order within the words, then in how many words third and fifth letter remains on the same position as earlier?
I. MBEKTYD
II. GPNAQUS
III. XCJRHO
(a) Only I
(b) Only I and II
(c) All I, II and III
(d) Only II
(e) None

Directions (31-32): Study the following information carefully and answer the questions given below.
The principal of St. Mary school organized extra classes for week students of X class and the concerned teachers are getting paid extra amount for the classes. But the average salary of teachers more or less remains the same.

Q31. Which of the following can be assumed from the given statement?
(I) The students of class X of school Y will score more marks than students of St. Mary school.
(II) Students of class X are not serious about exams.
(III) Extra classes arranged by the principal for students of class X will help the students to score well in exams.
(a) Both I and II
(b) Both II and III
(c) Only II
(d) Only III
(e) None of these

Q32. What can be the reason behind the average of the salary remain same of teachers?
I. Student of class X attend the extra class two or three days in a week although the teachers provide the class regularly.
II. Teachers started taking more holidays after the commencement of the extra classes.
III. Teachers are already working overtime for checking and preparing homework for students on daily basis.
(a) Both I and II
(b) Both II and III
(c) Only II
(d) Only III
(e) None of these

Direction (33): The tuda company is the third largest producer of steel with 1.5 lakh employees. The company is going to start a new unit by hiring 35% of its current employees. After its commencement

the company will become the largest steel producer with 32.5 billion turnover.

Q33. Which of the following can be inferred from the given statement?
I. The app. turnover of new unit of tuda company will be 1.5 million.
II. The company is required to hire 52000 employees.
III. With 52500 new employees of the new unit, the company will be able to reach the 32.5 million turnover.
IV. The turnover of the tuda company is now below 32.5 million.
(a) Both I and II
(b) Both II and III
(c) Only IV
(d) Only III
(e) Both III and IV

Directions (34-37): Study the following information carefully and answer the questions given below.
Ten persons are standing in a row facing north. All of them earn different amount viz. 3000, 4500, 5000, 7000, 8500, 10000. Three persons are standing between B and R. H is standing immediately ahead of B. L is standing adjacent to R. L is standing at extreme end. Six persons are standing between A and Y. Y is standing behind A. Only one person is standing between A and D. Q is standing ahead of G but behind Z.
The following information is given for the amount earn by them—
S@P means S earn more than P.
S#P means S earn less than P.
S$P means S earn equal to P.
The amount earn by all of them is given below—
A@Z$H@R$QG, YD#G, A#L#B

Q34. What will be the sum of the amount earn by Q, Z and L?
(a) 19000

(b) 18000
(c) 17000
(d) 20000
(e) 12000

Q35. How many persons are standing ahead of B?
(a) Two
(b) More than three
(c) Three
(d) One
(e) None

Q36. How many persons are standing between Q and R?
(a) Two
(b) More than three
(c) Three
(d) One
(e) None

Q37. How many persons earn less than G?
(a) Two
(b) More than three
(c) Three
(d) One
(e) None

Directions (38-40): Study the following information carefully and answer the questions given below.
A%B (7)- A is 12m in north of B
A$B (12)- A is 17m in south of B
A#B (32)- A is 37m in east of B
A&B (14)- A is 19m in west of B
M%K (33), J#K (9), G%J (19), H&G (23), N$H (25)

Q38. K is in which direction with respect to G?
(a) North
(b) West
(c) North-west
(d) East
(e) South-west

Q39. If Z is the midpoint of the line formed between H and G, then what is the distance between H and Z?
(a) 12m
(b) 14m
(c) 16m
(d) 17m
(e) 30m

Q40. If X is in west of J and lies on the line formed by H and N, then what is the distance between X and N?
(a) 10m
(b) 24m
(c) 6m
(d) 16m
(e) 14m

Directions (41-45): In each of the following below is given a group of letters followed by four combinations of digits/symbols numbered (a), (b), (c) and (d). You have to find out which of the combinations correctly represents the group of letters based on the following coding system and mark the number of that combination as the answer. If none of the four combinations correctly represents the group of letters, mark (e), i.e. 'None of these', as the answer

Note: More than one condition may apply.

Letter	R	G	F	A	P	Q	U	M	E	I	B	J	S	O	L
Digit/Symbol	#	2	7	µ	%	3	&	9	1	@	5	©	6	8	$

Conditions:
(i) If first letter is vowel and last letter is consonant then both are coded with the code of the consonant.
(ii) If both the 2nd and the last letter is vowel, then their codes are to be interchanged.
(iii) If the second letter is a consonant and the 2nd last letter is a vowel, both are to be coded as the code for the vowel.
(iv) If both 1st and fifth letter is consonant then both are coded as the code of third letter.

(v) If only one condition is applied among the above given, then the code of first letter is interchanged with code of second letter and third letter code interchanged with 4th letter and so on after that applied
condition.

Q41. AMGFIS
(a) 6@27@4
(b) 6@27@6
(c) 6@27#6
(d) 6@2@76
(e) None of these

Q42. PUGRLE
(a) 2122#&
(b) 221#2&
(c) 212#&2
(d) 212#2&
(e) None of these

Q43. UAIMUI
(a) @&9@µ&
(b) @&@9µ&
(c) @9&@µ&
(d) @&99µ&
(e) None of these

Q44. MJGLBF
(a) ©2$227
(b) ©$2272
(c) ©$2227
(d) ©2$2$2
(e) None of these

Q45. GFPQMB
(a) %7%3%5
(b) 27%395
(c) 7%3%5%
(d) %7%395
(e) None of these

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Q46. Statement:- The Union health ministry has made Aadhaar a compulsory document for tuberculosis patients to be able to avail treatment under the government's Revised National Tuberculosis Control Programme (RNTCP).

(I) A person cannot take treatment of TB without Aadhar card.

(II) Patients suffering from TB will be unable to get benefits under a central government scheme till they produce their Aadhaar card.

(III) An individual eligible to receive the benefit under the scheme, is hereby, required to furnish proof of possession of Aadhaar number or undergo Aadhaar authentication.

(IV) The World Health Organisation (WHO) recently said that tuberculosis epidemic in India was "larger" than what had been previously estimated.

Which of the following could be the inference of the given statement?
(a) Only II
(b) Only I and III
(c) Only II and III
(d) Only I
(e) None of these

Q47. Statement- The Captain Amarinder Singh-led government in Punjab has announced free education for girls in government schools and colleges from Nursery to PhD.

(I) Good social welfare law. It is initially for girls as they are comparatively disadvantaged. Hopefully it will soon be followed by free education for everyone.

(II) It is gender biased as if a poor or average person wants to educate his son for higher education he has to pay higher bills .If you are introducing a law / scheme / bills under no circumstance it should not favour
any particular gender, if they are really concerned about education.

(III) Do not differentiate a poor or average person on gender. A poor boy or man should also get free education as well.

Which of the following argument holds strong for the given statement?
(a) Only II
(b) Only III
(c) Only II and III
(d) Only I and II
(e) All of the above

Directions (48-50): Study the given information carefully to answer the following questions:
Six persons i.e. A, B, C, E, F and G who all are sitting around a circular table facing outside. They all are of different age. F is third youngest
person. Only two persons sits between E and F. G sits second to the left of C, who is 20 years of age. The one who is second oldest person is of 24 years of age. G is elder than A and C but not the eldest. C sits on the immediate right of E. B is elder than A and G. A and G are not immediate neighbours. The one who is the youngest is less than 20 years of age. A is not younger than F.

Q48. What will be the possible age of A?
(a) 25 years
(b) 20 years
(c) 27 years
(d) 19 years
(e) 22 years

Q49. What is the position of G with respect to A?
(a) Third to the left
(b) Second to the right
(c) second to the left
(d) Both (a) and (e)
(e) Third to the right

Q50. Who among the following is the youngest among all?
(a) A
(b) E
(c) C
(d) F
(e) None of these

Direction (51-55): In the given questions, two quantities are given, one as 'Quantity 1' and another asn 'Quantity 2'. You have to determine relationship between two quantities and choose the appropriate option:

Q51. A is twice as efficient as B. Both can complete a work together in $7\frac{1}{2}$ days.

Quantity 1: Time taken by B to complete the work alone.

Quantity 2: If C is 50% more efficient than A, then time taken by C to complete the work alone.

(a) Quantity 1 > Quantity 2
(b) Quantity 1 ≥ Quantity 2
(c) Quantity 2 > Quantity 1
(d) Quantity 2 ≥ Quantity 1
(e) Quantity 1 = Quantity 2 or Relation cannot be established

Q52. One of the roots of $2x^2 + bx - 5 = 0$ is 1.

Quantity 1: Value of the other root.
Quantity 2: 2.5
(a) Quantity 1 > Quantity 2
(b) Quantity 1 ≥ Quantity 2
(c) Quantity 2 > Quantity 1
(d) Quantity 2 ≥ Quantity 1
(e) Quantity 1 = Quantity 2 or Relation cannot be established

Q53. Two dices are rolled simultaneously.

Quantity 1: Probability that the sum of the numbers that appeared is a multiple of 5.

Quantity 2: 1/6
(a) Quantity 1 > Quantity 2
(b) Quantity 1 ≥ Quantity 2
(c) Quantity 2 > Quantity 1
(d) Quantity 2 ≥ Quantity 1
(e) Quantity 1 = Quantity 2 or Relation cannot be established

Q54. Sum of height and diameter of the cylinder is 28 meter.

Quantity 1: Curved surface area of the cylinder whose respective ratio of height to diameter is 3 : 4

Quantity 2: Curved surface area of the cylinder if height of cylinder is 10 m.

(a) Quantity 1 > Quantity 2
(b) Quantity 1 ≥ Quantity 2
(c) Quantity 2 > Quantity 1
(d) Quantity 2 ≥ Quantity 1
(e) Quantity 1 = Quantity 2 or Relation cannot be established

Q55. Product of digits of a two digits number 'N' is 21

Quantity 1 : N
Quantity 2 : 130–N
(a) Quantity 1 > Quantity 2
(b) Quantity 1 ≥ Quantity 2
(c) Quantity 2 > Quantity 1
(d) Quantity 2 ≥ Quantity 1
(e) Quantity 1 = Quantity 2 or Relation cannot be established

Q56. From container A containing 54 liter of mixture of milk and water in ratio of 8 : 1 , 18 liter of the mixture is taken out and poured into container B in which ratio of milk to water is 3 : 1. If difference between total milk and total water in container B is 30 liter then find the quantity of initial mixture in container B.
(a) 30 Liter
(b) 28 Liter
(c) 32 Liter
(d) 36 Liter
(e) 40 Liter

Q57. In a match of 50 overs, team A's average runs for first thirty overs was 4.5 runs/over while for the remaining 20 overs the average was 5.5 runs/over. Team B chased the target and lost by 10 runs. Find the average runs per over scored by team B. (team B played all the 50 overs).
(a) 4.4

(b) 5.2
(c) 4.7
(d) 5.6
(e) 3.8

Q58. In a bag which contains 40 balls, there are 18 red balls and some green and blue balls. If two balls are picked up from the bag without replacement, then the probability of the first ball being red and second being green is 3/26. Find the number of blue balls in the bag.
(a) 16
(b) 12
(c) 10
(d) 14
(e) 8

Q59. A is 50% more efficient than B. They together start the work and $\frac{7}{12}$ th of work is left after 8 days. Find in what time B alone will complete the whole work.
(a) 36 days
(b) 44 days
(c) 50 days
(d) 40 days
(e) 48 days

Direction (60–65): Given below table shows number of employees joined (at the beginning of the year) & left (at the end of the year) in three companies i.e. A, B & C in three years (2001, 2002 & 2003). Read the data carefully and answer the questions. (Some data are missing).

Years	A		B		C	
	joined	left	Joined	left	Joined	left
2001	102	-	96	18	84	36
2002	78	24	72	-	108	-
2003	112	-	144	-	124	28

Q60. In year 2000 total employee who joined A is 64 which is 32% of total employee working in A that year and total employee who left A in year 2000 & 2001 is 20 & 32 respectively. If employee left B in

year 2002 is 16 and this company starts in 2001 then find total employee working in B at the end of 2002 is approximate what percent of total employee working in A at the end of 2002?
(a) 36%
(b) 48%
(c) 52%
(d) 44%
(e) 56%

Q61. The ratio of total employee who left B & C in the year 2002 is 7 : 9 and total employee working in B & C at the end of 2000 are 160 & 172 respectively. If total employee working at the end of 2003 in C is 406, then find total employee working in B at the end of 2002?
(a) 284
(b) 296
(c) 298
(d) 302
(e) 306

Q62. Total employee working in B at the end of 1999 is 220 and 28 employee left company in 2000, while 32 new employees joined the company. If respective ratio of employee left the company B in year 2002 & 2003 is 6 : 7 and total employee working in B at the end of 2003 is 466, then find total employee left B in 2002 & 2003 together?
(a) 52
(b) 48
(c) 42
(d) 36
(e) 32

Q63. The average of total employee left company A in the given three years is 21 and ratio of employee left in 2001 to in 2003 is 7 : 6. If company A start in 2001, then find Total employee working in A at the end of 2002 is what percent more than total employee who joined company C in the year 2002?
(a) 20%
(b) 15%

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(c) 25%
(d) 30%
(e) 22.5%

Q64. Total employee who left C in the year 2002 is $33\frac{1}{3}$ % more than total employee who left A in same year and total employee who left B in 2002 is 62.5% of total employee who left C in same year. If all three companies start in 2001 and total 22 employee left A in 2001, then find the respective ratio of employee working in B, C & A at the end of 2002?
(a) 65 : 62 : 69
(b) 66 : 62 : 69
(c) 65 : 61 : 67
(d) 61 : 62 : 69
(e) 65 : 62 : 67

Q65. Each company start in 2001 and ratio of total employee left A in 2001 to that of B & C together in 2002 is 1 : 2. If total employee who left A in 2001 and that of B & C together in 2002 is 36 and total employee who left B in 2002 is 50% of employee who left C in same year, then find difference between total employee working in C at the end of 2003 and total employee working in A at the end of 2002 ?
(a) 92
(b) 82
(c) 72
(d) 96
(e) 86

Directions (66-71): In each of these questions, two equations numbered I and II are given. You have to solve both the equation and give answer
(a) if x < y
(b) if x ≤ y
(c) if x > y
(d) if x ≥ y
(e) if x = y or the relationship cannot be established

Q66. I. $2x^2 + 11x + 15 = 0$
II. $4y^2 + 13y + 9 = 0$
(a) if x < y

(b) if x ≤ y
(c) if x > y
(d) if x ≥ y
(e) if x = y or the relationship cannot be established

Q67. I. $x^2 - 36x + 324 = 0$
II. $y^2 - 35y + 216 = 0$
(a) if x < y
(b) if x ≤ y
(c) if x > y
(d) if x ≥ y
(e) if x = y or the relationship cannot be established

Q68. I. x = $(216)^{1/3}$
II. $y^2 = 6$
(a) if x < y
(b) if x ≤ y
(c) if x > y
(d) if x ≥ y
(e) if x = y or the relationship cannot be established

Q69. I. $2x^2 + 17x + 35 = 0$
II. $3y^2 + 17y + 24 = 0$
(a) if x < y
(b) if x ≤ y
(c) if x > y
(d) if x ≥ y
(e) if x = y or the relationship cannot be established

Q70. I. $x^2 + 72 = 108$
II. $y^3 + 581 = 365$
(a) if x < y
(b) if x ≤ y
(c) if x > y
(d) if x ≥ y
(e) if x = y or the relationship cannot be established

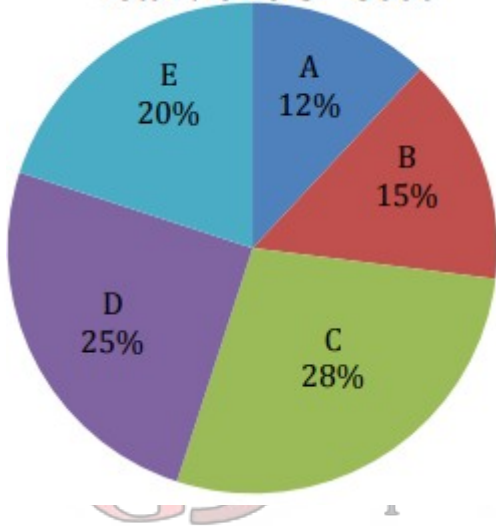**Q71.** I. $8x^2 + 58x + 39 = 0$
II. $8y^2 - 14y - 15 = 0$
(a) if x < y
(b) if x ≤ y
(c) if x > y

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(d) if x ≥ y
(e) if x = y or the relationship cannot be established

Direction (72-77): Given pie chart shows percentage distribution of viewers of a Tv channel in five different villages (A, B, C, D & E) and table shows number of viewers who subscribed the channel. Read the data carefully and answer the questions.
Note – Total viewers = Total subscriber + Total unsubscribe

Total viewers = 3000

Villages	People who subscribed
A	220
B	250
C	440
D	350
E	180

Q72. Total unsubscribed viewers from B & E together is what percent more than total unsubscribed viewers from C?
(a) 50%
(b) 55%
(c) 45%
(d) 40%
(e) 42%

Q73. If total male unsubscribed viewers in D is 66 $\frac{2}{3}$ % more than that of female unsubscribed viewers, then find ratio of total male unsubscribed viewers in D to total unsubscribed viewers in A & C together?
(a) 25 : 53
(b) 25 : 54
(c) 7 : 9
(d) 23 : 54
(e) 2 : 3

Q74. Find the central angle for total unsubscribed viewers in B & C and total subscribed viewers in E together with respect to total viewers?
(a) 133.6°
(b) 136.6°
(c) 63.6°
(d) 130.6°
(e) 93.6°

Q75. Out of total viewers in village C, $46\frac{3}{7}$ % are female and $\frac{7}{13}$ **th** of total female are unsubscribed viewers, then find total unsubscribed male viewers from village C?
(a) 170
(b) 180
(c) 210
(d) 190
(e) 250

Q76. In another village F total subscribed viewers are 20% more than total unsubscribed viewers in village A and total subscribed viewers in village F are $\frac{3}{7}$ **th** of total viewers in that village. Find total unsubscribed viewers from village F is what percent less than total unsubscribed viewers from village C?
(a) 42%
(b) 44%
(c) 48%
(d) 46%
(e) 40%

Q77. If the above data given for the year 2017 and in 2018 total viewers increased by 40%, while percentage distribution of viewers of TV channel in five different villages remain same as in 2017. If number of subscribed viewers from village A, B, D & E in 2018 increased by 25%, 20%, 14% & 10% respectively and total subscribed viewer from all the five village in 2018 are 1400, then find total unsubscribed viewers from C in 2018?
(a) 942
(b) 952
(c) 948
(d) 956
(e) 964

Directions (78-82): The following questions are accompanied by two statements A and B. You have to determine which statements(s) is/are sufficient/necessary to answer the questions.
(a) Statement A alone is sufficient to answer the question but statement B alone is not sufficient to answer the questions.
(b) Statement B alone is sufficient to answer the question but statement A alone is not sufficient to answer the question.
(c) Both the statements taken together are necessary to answer the questions, but neither of the statements alone is sufficient to answer the question.
(d) Either statement A or statement B by itself is sufficient to answer the question.
(e) Statements A and B taken together are not sufficient to answer the question

Q78. What is the value of rate of interest?
A. A sum of Rs 8000 is invested at simple interest for 3 years in scheme A which offers a certain rate of interest. Amount obtained from scheme A is equal to the amount obtained when Rs 9000 is invested in scheme B for 2 years at C.I.
B. Rate of interest for scheme B is same as rate of interest for scheme A.

(a) Statement A alone is sufficient to answer the question but statement B alone is not sufficient to answer the questions.
(b) Statement B alone is sufficient to answer the question but statement A alone is not sufficient to answer the question.
(c) Both the statements taken together are necessary to answer the questions, but neither of the statements alone is sufficient to answer the question.
(d) Either statement A or statement B by itself is sufficient to answer the question.
(e) Statements A and B taken together are not sufficient to answer the question

Q79. 4 men & 18 women can do a piece of work in 2.5 days, then in how many days 12 woman can complete the same piece of work?
A. Ratio of efficiency of men to women is 3 : 2.
B. 6 men & 6 women can complete the same work in 4 days.
(a) Statement A alone is sufficient to answer the question but statement B alone is not sufficient to answer the questions.
(b) Statement B alone is sufficient to answer the question but statement A alone is not sufficient to answer the question.
(c) Both the statements taken together are necessary to answer the questions, but neither of the statements alone is sufficient to answer the question.
(d) Either statement A or statement B by itself is sufficient to answer the question.
(e) Statements A and B taken together are not sufficient to answer the question

Q80. What will be speed of stream, if speed of boat in still water is 22.5 km/hr?
A. The time taken by boat to cover 120 km upstream is 4 hours more than time taken by boat to cover same distance in downstream.
B. Boat takes total 15 hours to cover 150 km in downstream and upstream.

(a) Statement A alone is sufficient to answer the question but statement B alone is not sufficient to answer the questions.

(b) Statement B alone is sufficient to answer the question but statement A alone is not sufficient to answer the question.

(c) Both the statements taken together are necessary to answer the questions, but neither of the statements alone is sufficient to answer the question.

(d) Either statement A or statement B by itself is sufficient to answer the question.

(e) Statements A and B taken together are not sufficient to answer the question

Q81. What will be sum of two natural numbers X & Y?

A. X & Y both are multiple of 24, while X is 50% more than Y.

B. $\frac{X}{30}$ & $\frac{Y}{40}$ both are natural number.

(a) Statement A alone is sufficient to answer the question but statement B alone is not sufficient to answer the questions.

(b) Statement B alone is sufficient to answer the question but statement A alone is not sufficient to answer the question.

(c) Both the statements taken together are necessary to answer the questions, but neither of the statements alone is sufficient to answer the question.

(d) Either statement A or statement B by itself is sufficient to answer the question.

(e) Statements A and B taken together are not sufficient to answer the question

Q82. There is (2a+ 16) students in a class with three streams, i.e. art, science & commerce. The ratio of students who take art to science is 4 : 1. Find total number of students in class.

A. Total students who take art is 8 more than total students who take commerce and probability of selecting one student who take science is $\frac{1}{8}$

B. Total commerce students in class are 25% less than total art students in the class.

(a) Statement A alone is sufficient to answer the question but statement B alone is not sufficient to answer the questions.
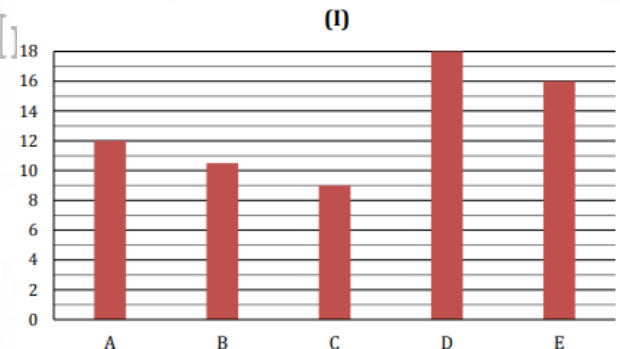
(b) Statement B alone is sufficient to answer the question but statement A alone is not sufficient to answer the question.
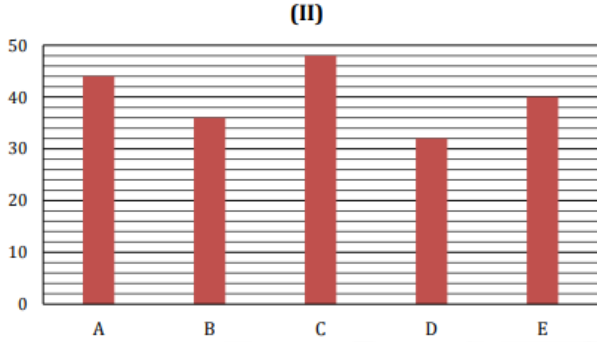
(c) Both the statements taken together are necessary to answer the questions, but neither of the statements alone is sufficient to answer the question.

(d) Either statement A or statement B by itself is sufficient to answer the question.

(e) Statements A and B taken together are not sufficient to answer the question

Direction (83-88): Given below bar graph (I) shows total students (Boys + girls) in thousands who have taken admissions in five different college and bar graph (II) shows percentage of girls taken admission in these five colleges. Read the data carefully and answer the questions.

(I)

(II)

Q83. Total boys taken admission in college B & D together are what percent more than total boys taken admission in E?
(a) 92.5%
(b) 97.5%
(c) 99.5%
(d) 102.5%
(e) 84.5%

Q84. 75% and 80% of total girls taken admission in college A & C respectively appeared in exam and total students appeared in exam from A & C is 17910. If total boys appeared in exam from A is 6048, then find difference between boys who did not appeared in exam from college A & C?
(a) 438
(b) 428
(c) 418
(d) 408
(e) 448

Q85. Find the ratio of total boys taken admission in college A & B together to total girls taken admission in D & E together?
(a) 13 : 11
(b) 23 : 19
(c) 21 : 17
(d) 21 : 19
(e) None of these

Q86. If in college F total girls taken admission are 62.5% more than that of total girls taken

admission in C and total boys taken admission in college E & F together is 20580, then find percentage of girls taken admission in college F?
(a) 33%
(b) 43%
(c) 39%
(d) 37%
(e) 45%

Q87. In each college there are only three streams (i.e science, commerce & art) and in college B respective ratio of students taken admission in science, commerce & art is 2 : 1 : 4. If out of total girls taken admission in college B, 40% taken admission in science stream, 25% taken admission in commerce stream, then find difference between boys taken admission in art & science streams from college B?
(a) 3242
(b) 3464
(c) 3189
(d) 3345
(e) 2964

Q88. Find the average number of boys taken admission from all the five given colleges?
(a) 7992
(b) 7982
(c) 6848
(d) 7292
(e) None of these

Q89. There is a square field of area 'X' square meters. A cylindrical ditch of radius 7 meters and depth 2 meters is dug, and the earth is taken out and spread over the remaining part of the square field, the height of square field which goes up by 0.77 meters. What is the value of 'X' ?
(a) 548 m²
(b) 524 m²
(c) 518 m²
(d) 554 m²
(e) 504 m²

Q90. A man invested an amount at the rate of 10% p.a. on compound interest and after two years he again invested half of the initial amount. If man got Rs. 457.2 Rs. as interest after three years, find the amount received by man after three years, if he invested same amount on simple interest at rate of 15% p.a.?
(a) 1740 Rs.
(b) 1720 Rs.
(c) 1760 Rs.
(d) 1780 Rs.
(e) None of these

Q91. A and B entered in a business by making investment of Rs. 4000 & Rs. 5500 respectively. After six months A & B withdrew Rs. 1000 and Rs. 1500 respectively and C joined them with capital of Rs. 4x. If after one year and three months C received Rs. 2250 as profit share out of total profit of Rs. 12250, then find investment of C?
(a) Rs. 3600
(b) Rs. 3200
(c) Rs. 4400
(d) Rs 3000
(e) Rs. 2800

Q92. Train A can cross a man in 8 sec and a 180 m long platform 'P' in 17 sec. If train A cross train B which is running in opposite direction at speed of 108 km/hr in 8 sec, then find time taken by train B to cross platform P?
(a) 16 sec
(b) 11 sec
(c) 14 sec
(d) 12 sec
(e) 15 sec

Q93. There are two shopkeepers, first shopkeeper calculates his profit percent on the selling price whereas the second shopkeeper calculates his profit percent on the cost price. If the selling price for both the shopkeeper is same and the difference between their profits is Rs.175. Then, calculate the sum of the cost price for both the shopkeeper if the profit percent for the both shopkeeper is 25%?
(a) Rs 5425
(b) Rs 4875
(c) Rs 4675
(d) Rs 5275
(e) Rs 5325

Q94. If 6 years are subtracted from the present age of Ayush and takes 25% of that then we get the present age of his only son. 4 years ago, his daughter's age is 7 years more than his son. Sum of daughter's present age and his wife's present age is 10 years more than Ayush's present age then find the present age of Ayush if average of present age of entire family is 30.25 yr?
(a) 45 year
(b) 50 year
(c) 60 year
(d) 40 year
(e) 36 year

Q95. 'X' is a bread seller who marked up price of each bread packet by 150% above and allow discounts of 40% and made a profit of Rs. 30 on each bread packet. If 'X' allows 37.5% discount on each packet, then find how much profit he gets on selling 80 bread packets?
(a) Rs 2750
(b) Rs 3200
(c) Rs 2500
(d) Rs 2700
(e) Rs 2400

Direction (96-100): Read the data carefully and answer the questions.
A company is the producer of bottles and it used to sell bottles through distributor on a condition that on selling the stock of every 50 bottles, he will get Rs 1000 as commission. The distributor is responsible to sell all those bottles to retailers. If he marks the bottles at the price which is 30% above the production cost

(cost price) and allows a discount of Y%. He sells total of 'X' bottles which is 40 less than total received stock by him. Total production price of whole stock of bottles received by him to sell to retailers is Rs. 7.8 lakhs. The commission received by distributor is Rs. 7000 and he made a profit of Rs 1.4 lakhs on selling the bottles.

Q96. What is value 'Y' ?
(a) $9\frac{9}{13}$ %
(b) $7\frac{9}{13}$ %
(c) $5\frac{9}{13}$ %
(d) $8\frac{9}{13}$ %
(e) None of these

Q97. What will be ratio of Y : (X + 40)?
(a) 10 : 511
(b) 10 : 503
(c) 10 : 513
(d) 10 : 507
(e) 10 : 509

Q98. Instead of 'Y' employee allow 10% discount on one bottle, then percentage profit of distributor?
(a) 17%
(b) 15%
(c) 12%
(d) 10%
(e) 19%

Q99. If company added given commission in cost price and he give stock of (X + 450) bottles to another distributor who sold all stock, then find new cost price of one bottle?
(a) 2200 Rs.
(b) 2020 Rs.
(c) 2040 Rs.
(d) 2060 Rs.
(e) 2080 Rs.

Q100. If distributor allowed two successive discounts of 5% and 12.5% on marked price, then find the profit made by distributor on selling of one bottle?
(a) 161.25 Rs.
(b) 162.25 Rs.
(c) 172.25 Rs.
(d) 176.25 Rs.
(e) 174.25 Rs.

Directions (101-105): Read the following passage and answer the questions as directed.

Artificial intelligence (AI) is all the rage these days. A recent article noted that 'robots' — shorthand for AI in the tabloids — will be able to write a fiction bestseller within 50 years. I suppose that would be shocking to me as a novelist if most fiction bestsellers were not already being written by 'robots'. Or so one feels, keeping publishing and other vogues in mind: a bit of this, a bit of that, a dash of something else, and voila you have a bestseller! In that sense, perhaps the rise of AI will make us reconsider what we mean by human intelligence. This discussion has been neglected for far too long. Take my field: literature. The Chinese company, Cheers Publishing, lately offered a collection of poems written by a computer program. So, are poets generally considered to be suicidal in any case, jumping off the cliffs in droves as a consequence? Well, this is a selection from one of the AI poems I found online: "The rain is blowing through the sea / A bird in the sky / A night of light and calm / Sunlight / Now in the sky / Cool heart / The savage north wind / When I found a new world." Yes, there are aspiring poets — and sometimes established ones — who write like this, connecting words centripetally or centrifugally to create an effect. I think they should have been pushed off literary cliffs a long time ago. Because this is not poetry; this is just the technique of assembling words like poetry. There is a difference between the intelligence required to write poetry and the skills required to write it. That poetic intelligence is lost without the required poetic skills, but the skills on their own do

not **(A)suffice** either. The fact that lines like this, written by AI, can be considered poetry does not reflect on the intelligence of AI. It reflects on the intelligence of those readers, writers, critics, editors, publishers and academics who have not yet distinguished between gimmickry and mimicry on the one side and the actual freshness of a chiselled line on the other. But this is a small example. Surely, AI might also make **(B)** ...., including that of considering something like IQ to be a sufficient index of human mental capacity! Because if we think that AI can replace human intelligence, then we are simply not thinking hard enough. **(C)** One of the major **(1) activity** here is that of considering **(2) intelligence** to be something **(3) different** from and raised above the **(4) failures** of living. This leads to the misconception that intelligence can be **(D)**.......... to something else — say, a robot — without becoming something else. Human intelligence cannot be passed on to something else: What is "passed on" is always a different kind of 'intelligence'. Even the arguments that AI — or, as in the past, robots — can enable human beings to lead a gloriously workless existence is based on a similar misconception. Because human intelligence is embedded in human existence, 'work' as human activity in the world is not something human beings can do without.

Q101. Which of the following words can replace the word given in bold in (A) without changing the meaning of the sentence?
(a) disperse
(b) squander
(c) dissipate
(d) serve
(e) spread

Q102. Out of the following options which option does support the statement "**There is a difference between the intelligence required to write poetry and the skills required to write it,"** made by the author in the paragraph?
(a) There are aspiring poets who write like this, connecting words centripetally or centrifugally to create an effect, this is not poetry; this is just the technique of assembling words like poetry.
(b) that would be shocking to me as a novelist if most fiction bestsellers were not already being written by 'robots.'
(c) The lines written by AI considered as poetry does not reflect on the intelligence of AI.
(d) Both (b) and (c)
(e) None of the above

Q103. Which of the following phrases should fill the blank given in (B) to make it grammatically and contextually correct and meaningful?
(a) has always been a mistake to expect him to 'solve' problems without human effort
(b) us discover our basic lack of intelligence in other areas
(c) often atheistic fans of AI who believe that it is 'The solution' are making the same mistake
(d) has had a crucial role in shaping cognitive capacity and brain evolution
(e) None of the Above

Q104. The sentence given in (C) has four words given in bold. Amongst given bolded words, which of the followings must replace each other to make the sentence contextually correct and meaningful.
(a) 2-4
(b) 2-3
(c) 1-4
(d) 3-4
(e) 1-3

Q105. Which of the following words given in the options should come at the place marked as 'D' in the above paragraph to make it grammatically and contextually meaningful and correct? Also, the word should fill the two sentences given below to make them contextually correct and meaningful?

(i) They aim to prevent women from being .... to a secondary role.
(ii) United were .... to division two.
(a) forecasted
(b) relegated
(c) researched
(d) published
(e) vanished

Directions (106-110): Read the following passage and answer the questions as directed.

We expect individuals **(I)** to take charge of their lives, to assume responsibility for their decisions. But when individuals group together, a problem arises. Groups can't take charge of themselves, nor can every member simultaneously take charge of the entire group. Someone from the group is invariably asked to
show the way, to become the primary agent, to lead. Yet, not everyone who occupies high office is a leader. A person who merely **(II)** or has management skills is not a leader. Moreover, not everyone who assumes the role of a leader is able to play it well. What qualities then make for a leader? Which **(A)virtues** are required to provide ethical leadership? I suppose there is little new **(III).** But let me still give it a shot in the hope that it serves as a good reminder. And in the election year, why not focus on qualities necessary for political leadership? If a person is chosen to lead the group, it is her responsibility to take care of the interest of each person of the entire group. This often **(B)**................. putting collective interest before her own interest or that of her preferred group. For this to happen, she must first be able to identify the common good, to have a grasp of
what is acceptable to all, to have an inclusive vision. This requires an infinite capacity to listen to others, to
learn from them, to have the intellectual ability to critically examine and evaluate what everyone wants and needs, and then put them all together.

Since this intellectual formulation can only be the first step, an estimate of the real quality of a decision is not known until it is implemented; ....**(C)** ....
This requires him to keep his ear to the ground, listen patiently to criticism to judge if his policies are working. He must not be defensive when criticised, or evade uncomfortable questions, but face criticism head on and be able to sift the wheat from the chaff. It also necessitates that a leader show flexibility and an ability for course correction by admitting mistakes. He should know that one's stature is not diminished by accepting fallibility. A leader must be a good communicator, and that is greatly helped if he has a way with words. But all the rhetorical flourish is of no avail if the speech lacks sincerity and conviction. Finally, a
good leader knows that nothing can be achieved without the collective expertise and wisdom of a support team.
It is equally tempting to pick those one has taken a fancy to, who are personally loyal. But such people often lack spine. **(D)**Fearful people with poor ability can never offer good advice to their leader and could allow bad decisions to prevail that push the country down a ruinous path. Besides, they are often among the first to backstab the leader once out of power. Thus, personal likes and dislikes too must be set aside.

Q106. Which of the following words can replace the word given in bold in (A) without changing the meaning of the sentence?
(a) gentry
(b) Fortes
(c) rage
(d) tantrum
(e) rampage

Q107. In the Question below three phrases are given which must be filled in the positions given in I, II and III in the passage. From the options given below,

choose the correct order of phrases that should be filled in the positions given.
A. one can say on this matter
B. to be their own leaders
C. coordinates the actions of others
(a) ABC
(b) CAB
(c) BCA
(d) BAC
(e) ACB

Q108. Which of the following words should fill in the blank in (B) to make a contextually correct and meaningful sentence?
(a) arouse
(b) entails
(c) sheers
(d) garners
(e) evokes

Q109. Two sentences are given in italics on both sides of C. Which of the following statements can come in between the two sentences in place of C so as to maintain the continuity of the paragraph?
(a) this means that our leaders must owe supreme loyalty to nothing
(b) understand the purpose of the job, can speak their mind, and are able, without fear
(c) such persons can be identified only by one who possesses these qualities
(d) Its deficiencies begin to show up only when put into practice.
(e) None of the above

Q110. In the passage given, a sentence D is given in Italics. There may or may not be an error in one part of the sentence. Choose the part which has an error in it as your answer.
(a) Fearful people with poor ability can
(b) never offer good advice to their leader
(c) and could allow bad decisions to prevail
(d) that push the country down a ruinous path.
(e) no error

Directions (111-115): Read the following passage and answer the questions as directed.

Start-ups troubled by the so-called angel tax may soon receive some (A)……….. from the government. On Monday, the Centre set up a five-member working committee to look into revising the (B)norms of the angel tax imposed on start-ups. The tax, which was first introduced in 2012 to curb money-laundering through the (i) at bloated prices, has caused a lot of anguish among start-up investors in the country. Startup owners have complained that income tax officials have asked many start-ups to cough up money when they try to attract capital into their entities by issuing new shares. For its part, the IT department fears that start-ups may be used as convenient tools to launder illegally acquired money, so a tax on investments beyond a certain threshold is (ii). (C) But while the (1) unintended of such an angel tax may be (2) benefits, the arbitrary nature of it means the cost of (3) intent consequences could be larger than the supposed (4) justifiable. In trying to curb money-laundering, Section 56(2)(viib) of the Indian Income Tax Act, 1961 gives income tax officials a free hand to harass even genuine start-ups looking to raise investments for their growth. Under the Act, the IT department is free to arbitrarily decide the fair value of a company's share and tax start-ups if the price at which their new shares are sold to investors is higher than the fair value of these shares. The broad-brush tax on all investments means an unnecessary cost is (iii)community simply because of the lack of better means at the government's disposal to tackle black money.

The committee set up by the government will, among other things, consider raising the threshold beyond which new investments into start-ups will be taxed. It is expected that start-ups with aggregate paid-up share capital and share premium of less than ₹25 crore, against the previous threshold of

only ₹10 crore, will not be taxed while attracting new investment. This would definitely make life easier to a certain extent for angel investors and start-ups. But it will not address the real problem with the angel tax, which has to do with the unbridled power that it vests in the hands of the income tax authorities. Investors, foreign or domestic, may become wary of investing in new ideas when they are taxed while risking money on untested ventures. So the government should look to withdraw the angel tax and focus instead on building the capability to better identify and rein in illegal wealth. Otherwise it risks killing the nascent start-up ecosystem in the country.

Q111. Which of the following words should fill in the blank in (A) to make a contextually correct and meaningful sentence?
(a) collusion
(b) commotion
(c) concession
(d) digression
(e) fluctuation

Q112. Which of the following words can replace the word given in bold in (B) without changing the meaning of the sentence?
(a) Measures
(b) Deviations
(c) Regulations
(d) Standards
(e) Abbreviations

Q113. In the question below three phrases are given which must be filled in the positions given in i, ii and iii in the passage. From the options given below, choose the correct order of phrases that should be filled in the positions given.
A. necessary to deter such shady operations
B. sale of shares of private unlisted companies
C. imposed on the wider start-up
(a) ABC
(b) CAB

(c) BCA
(d) BAC
(e) ACB

Q114. The sentence given in C has four words given in bold. Amongst given bolded words, which of the followings must replace each other to make the sentence contextually correct and meaningful.
(a) 2-4
(b) 1-3
(c) 1-4
(d) 3-4
(e) Both (a) and (b)

Q115. As per the information given in the passage, out of the following options which option does best explain the term "angel investor"?
(a) Angel investors are those who don't look for the low risk investment that might yield a more reliable return, because those startups fail too.
(b) Angel investors are those who own shares in the business, not revenue, and not profits.
(c) An angel investor is an affluent individual who provides capital for a business start-up.
(d) Angel investors are often retired entrepreneurs or executives, who may be interested in angel investing for reasons that go beyond pure monetary return.
(e) None of the above

Directions (116-120): In each of the following questions a grammatically correct and meaningful sentence is given with four words given in bold in each. Which of the following words should replace each other to form a meaningful and grammatically correct sentence. The meaning can be different from the one in question.

Q16. The Central government is unable to provide the funds while Kerala has been stopped in its (A)tracks from seeking resources from (B) abroad, either from the Kerala (c) diaspora or from friendly (D) overseas governments.

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(a) C-B
(b) A-D
(c) B-D
(d) A-B
(e) No Interchange Possible

Q117. Immediately the sympathies of the (A) **police** and (B) **magistrates,** some sections of the media and (C) **public** opinion swing towards the (D)**perpetrator,** not the victim.
(a) A-C
(b) A-B
(c) B-D
(d) B-A
(e) No Interchange Possible

Q118. It is (A) **imperative** that there be course corrections; otherwise the (B)**exercise** runs the risk of fueling a (C) **parallel** movement against the state by those being (D)**victimised** now.
(a) A-D
(b) A-C
(c) A-B
(d) B-D
(e) No interchange is possible

Q119. The tsunami of 2004 and the (A) **threat** of piracy in the Indian Ocean provided India an (B)**opportunity** to test its new posture. Everybody was (C)**grateful,** but it made no difference to India's claim to (D)**permanent** membership.
(a) No interchange possible
(b) A-B
(c) B-C
(d) B-D
(e) A-D

Q120. The government has (A) **tampered** with institutions by appointing its own people to positions of (B)**authority,** and by using the (C) **Enforcement** Directorate, Income Tax authorities, the Central Bureau of Investigation and the

(D)**police** as bulldozers to flatten out any site of opposition.
(a) A-C
(b) B-D
(c) C-D and A-B
(d) C-D
(e) A-D

Directions (121-125): In each of the following questions a sentence is given with a word given in BOLD. Corresponding to each question three sentences are given with the use of the same word. From the options choose the sentences which give a DIFFERENT MEANING for the word used in the sentence above. The meaning used in the sentence(s) should be different from the one used in the main sentence.

Q121. The leaders of our ruling **dispensation** seem to have no respect for the rule of law, nor for the rules that regulate speech in public spaces.
(I) Because the soldier had saved his entire unit, the president gave him dispensation for his wartime crimes.
(II) Scholarship is conveyed to a wider audience than under the old dispensation.
(III) At the close of the Jubilee this dispensation was extended to all who had expired on the way to Rome.
(a) Only I
(b) Only II
(c) Only III
(d) Both I and II
(e) Both I and III

Q122. This is the latest instalment in the rather sordid story of institutional decay in India, overseen by the leaders of the Bharatiya Janata Party (BJP).
(I) He remained, however, uncertain how to do so without immersing himself further in Lydia Larkin's sordid activities.
(II) The overcrowded housing conditions were sordid and degrading.

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(III) Everyone knows of the bank's manager sordid plan to steal the money.
(a) Only III
(b) Only II
(c) Both I and II
(d) Only I
(e) Both II and III

Q123. Competitive federalism, in the context of interaction with foreign countries, promoted by Prime Minister Narendra Modi, has proved to be a double-edged sword.
(I) In 1761 he was promoted to be member of council, under the presidency of Mr Vansittart, who had been introduced by Clive
(II) The industry was actively promoted by a Frenchman named Jumel, in the service of Mehemet Ali, from 1820 onwards with great success.
(III) He actively promoted the incorporation of the left bank of the Rhine with France.
(a) Only III
(b) Both I and II
(c) Only I
(d) Both II and III
(e) All of the above

Q124. When India's aspiration for permanent membership of the UN Security Council met with strong resistance, New Delhi hit upon the idea of forcing a vote in the General Assembly.
(I) The president's healthcare plan drew a lot of resistance from his political rivals.
(II) The employees' showed their resistance to the salary cuts by picketing outside the factory.
(III) He also investigated electrical endosmosis and the electrical resistance of electrolytes.
(a) Only II
(b) Both I and II
(c) Only II
(d) Only III
(e) None of the above

Q125. The constitutional framework does not provide thick or substantive conceptions of how we shall think, and in what we shall believe.
(I) Why should I take the herb when there is no substantive proof it will ease my pain
(II) Not only do we hear of these varieties of practice but also of the laying on of hands; together with prayer as a substantive rite unconnected with baptism.
(III) They said no substantive objections to the agreement have been raised
(a) Only I
(b) Only II
(c) Both II and III
(d) All of the above
(e) None of the above

Directions (126-130): In the questions given below a sentence is given with two blanks in each. Corresponding to each question two columns are given with three words in each column. Which combination of words from the two columns will perfectly fit into the blanks to make the sentence contextually correct and meaningful.

Q126. Mutual political suspicion and a lack of .... of the complexities of the international situation have brought about a confrontation. The Chief Minister may have even made .... and tactical misjudgments.

Column I	Column II
A. Appreciation	D. Acceptable
B. Acknowledgement	E. Diplomatic
C. Plethora	F. Strategic

(a) C-E
(b) A-F
(c) B-F and A-E
(d) B-D
(e) C-D

Q127. The investigation also .... that another pilot flying as Staff On Duty entered the cockpit after pressing the cockpit buzzer several times. The pilot

in command .... that he allowed the SOD inside the cockpit because the buzzer was distracting.

Column I	Column II
A. Divulged	D. Advanced
B. Rejected	E. Submitted
C. Communicated	F. Recommended

(a) C-D
(b) B-E
(c) A-E
(d) A-F
(e) B-E

Q128. A committee, chaired by Union Environment Minister Harsh Vardhan, has .... wildlife clearance to the Mumbai-Ahmedabad highspeed train corridor that .... upon a flamingo sanctuary and the Sanjay Gandhi National Park, home to leopards, in Mumbai.

Column I	Column II
A. Alienated	D. Encroaches
B. Estranged	E. Repelled
C. Accorded	F. Admonish

(a) A-F
(b) B-D and A-E
(c) C-F
(d) C-D
(e) B-E

Q129. The CBI says there was no proper response to the earlier .... it sent to the Police Commissioner, and alleges that he could have destroyed evidence that was initially gathered by the Special Investigation Team that he had .... in the initial stage of the probe.

Column I	Column II
A. Declaration	D. Supervised
B. Summonses	E. Govern
C. Command	F. Administered

(a) A-D
(b) C-E
(c) B-E
(d) B-F and C-E
(e) B-F and B-D

Q130. Following Taylor, we can rightly wonder why political power should be exercised, implemented and .... without rules. Assertions of political power .... affect our interests and our projects.

Column I	Column II
A. fickle	D. sabotage
B. executed	E. adversely
C. finished	F. negatively

(a) A-E
(b) C-D
(c) A-C and B-E
(d) B-E
(e) C-F

Directions (131-135): In the following questions, a grammatically correct and meaningful sentence is given which is divided into five parts, (A),(B),(C),(D) and (E). Part (E) is fixed and highlighted in BOLD. You have to arrange the other four parts to make a contextually and grammatically meaningful sentence (the meaning can be different from the one given in the question). If no such rearrangement is possible mark (e) as your answer i.e. 'No rearrangement is possible'.

Q131. of formal and informal rules, assure (A)/according to some norms that enable as well as (B) / institutions, as the embodiment (C)/ citizens that the government exercises power (D) /**regulate state capacity** (E).

(a) ACBDE
(b) CADBE
(c) DABCE
(d) BACDE
(e) BDCAE

Q132. British rule, secularism was an article of faith across(A)/ the ideological spectrum, though only in a limited definition as (B) / the community-based template of political competition introduced under (C) / in the aftermath of Partition, seen as the outcome of (D)/**a seamless sense of national identity.** (E)

(a) BADAE
(b) CBDAE
(c) ACBDE
(d) DCABE
(e) CABDE

Q133. the exclusion was not based on gender or sex, but on religious (A) / by veteran lawyer K. Parasaran, sought a (B) / the Nair Service Society, represented (C)/ review of the verdict on the ground that (D) /**faith in and character of the deity. (E)**
(a) DACBE
(b) ABDCE
(c) CBDAE
(d) BCDAE
(e) CBADE

Q134. represented by Solicitor General Tushar Mehta, (A) / while Mr. Venugopal said he did not (B) /on Mr. Bhushan, the government, (C)/ want the court to impose any punishment (D) /**was of the opposite opinion. (E)**
(a) DABCE
(b) BDCAE
(c) CDABE
(d) ABCDE
(e) CDBAE

Q135. deposit-taking activities altogether, by making them an offence (A) /the principle is that the Bill would ban unregulated (B) / framework that only comes into effect (C) / ex-ante rather than the existing legislative-cum-regulatory (D) /**ex-post with considerable time lags. (E)**
(a) ADCBE
(b) BACDE
(c) CDBAE
(d) DABCE
(e) BADCE

Directions (136-140): In the questions given below five words are given in which four of them have a similar meaning and one word is the antonym for the other four words. Choose the word, opposite in meaning to the other four, as your answer.

Q136. (a) incommensurate
(b) inordinate
(c) unsymmetrical
(d) proportionate
(e) lopsided

Q137. (a) Dissipate
(b) Lavish
(c) Splurge
(d) Squander
(e) Retrieve

Q138. (a) fractious
(b) affable
(c) grouchy
(d) bad-tempered
(e) shrewish

Q139. **(a) conciseness**
(b) eloquence
(c) rhetoric
(d) magniloquence
(e) blarney

Q140. (a) eradicate
(b) exterminate
(c) abolish
(d) ratify
(e) quash

Q141. The Mahanadi is a major river in East Central India. It originates from which state?
(a) Jharkhand
(b) West Bengal
(c) Odisha
(d) Chhatisgarh
(e) Madhya Pradesh

Q142. Angelique Kerber is a/an _____ professional tennis player and former world No. 1, and a three time Grand Slam champion.
(a) German
(b) American
(c) France
(d) Swiss
(e) Australian

Q143. Aaron James Finch is an Australian sports player. He play which sport?
(a) F1 Race
(b) Football
(c) Badminton
(d) Tennis
(e) Cricket

Q144. Indian Banks' Association, formed on 26 September 1946 as a representative body of management of banking in India operating in India - an association of Indian banks and financial institutions based in Mumbai. Who is present Chairman of IBA?
(a) Jatinder Bir Singh
(b) Dinabandhu Mohapatra
(c) Sunil Mehta
(d) Rajnish Kumar
(e) Chanda Kochhar

Q145. Who is the Chairman of HDFC Bank?
(a) Aditya Puri
(b) Deepak Parekh
(c) Shikha Sharma
(d) Amitabh Chaudhary
(e) Sandeep Bakhshi

Q146. Khelo India Youth Games, formerly Khelo India School Games, meaning Play India Youth Games, held annually in January or February, are the national level multidisciplinary grassroot games in India held for two categories, namely under17 years school students and under-21 college students. Khelo

India Youth Games 2019 held in-
(a) New Delhi
(b) Lucknow
(c) Patna
(d) Jaipur
(e) Pune

Q147. Recently, RBI has declared that how much percentage of demonetized money was back?
(a) 79.30%
(b) 93.30%
(c) 88.30%
(d) 99.30%
(e) 91.30%

Q148. What is the current reverse repo rate of RBI?
(a) 6.50%
(b) 6.25%
(c) 6.75%
(d) 4.00%
(e) 19.50%

Q149. Who is the committee head of the merger of the public sector banks?
(a) Raghuram Rajan
(b) Bimal Jalan
(c) Arun Jaitley
(d) YV Reddy
(e) Piyush Goyal

Q150. World's first thermal battery power plant is started in which state?
(a) Andhra Pradesh
(b) Kerala
(c) Uttar Pradesh
(d) Maharashtra
(e) Gujarat

Q151. The difference between exports and imports is called-?
(a) assets and liabilities
(b) balance of payment
(c) GDP

(d) balance of trade
(e) depreciation

Q152. The 2018 ICC Women's World Twenty20 was hosted in _____ from 09th to 24th November 2018, during the 2018–19 international cricket season.
(a) Australia
(b) West Indies
(c) South Africa
(d) India
(e) New Zealand

Q153. Which of the following country to host the 11th BRICS Summit is scheduled for October 2019?
(a) India
(b) China
(c) South Africa
(d) Germany
(e) Brazil

Q154. What is the name of the book which was awarded the golden man Booker Prize 2018?
(a) The English Patient
(b) Everything Under
(c) The Long Take
(d) Washington Black
(e) The Mars Room

Q155. What is the minimum paid-up equity capital for small finance banks?
(a) Rs 10 crore
(b) Rs 500 crore
(c) Rs 100 crore
(d) Rs 200 crore
(e) Rs 1000 crore

Q156. Stan Lee, who passed away recently, was a comic writer with which of the following comic works was he as associated?
(a) Science fiction Comics
(b) Action/Adventur Comics
(c) Manga Comics
(d) Superhero Comics
(e) Marvel Comics

Q157. BOND-I is given by which institution?
(a) IMF
(b) RBI
(c) ADB
(d) World Bank
(e) SEBI

Q158. Eat right movement was launched by FSSA selected whom as it's brand ambassador?
(a) MS Dhoni
(b) Virat Kohli
(c) Rajkummar Rao
(d) Amitabh Bachchan
(e) Nawazuddin Siddiqui

Q159. India has stated it aims to reduce the emissions intensity of its GDP by 33-35% by 2030 from 2005 levels and achieve _____ of its cumulative electric power of around 350GW installed capacity from non-fossil fuel-based energy resources, mainly renewable power.
(a) 20%
(b) 40%
(c) 50%
(d) 30%
(e) 10%

Q160. What is child sex ratio for 1000 males as per census 2011?
(a) 919 females
(b) 921 females
(c) 927 females
(d) 925 females
(e) 917 females

Q161. The Reserve Bank of India made a strong case for setting up a _____ in India to address the twin balance sheet problem of the banking sector and the corporate sector.
(a) Public Credit Registration

(b) **Public Credit Registry**
(c) Public Credit Review
(d) Public Credit Reminder
(e) Public Commerce Registry

Q162. The _____ is the second supersonic fighter developed by Hindustan Aeronautics Limited (HAL) after the HAL HF-24 Marut.
(a) Trishul
(b) Prithavi
(c) Vikrant
(d) Akash
(e) **Tejas**

Q163. Lok Adalat is one of the alternative dispute redressal mechanisms, it is a forum where disputes/cases pending in the court of law or at pre-litigation stage are settled/ compromised amicably. What is the minimum charge to file a case in a Lok Adalat?
(a) **no court fee**
(b) Rs 10
(c) Rs 50
(d) Rs 05
(e) Rs 100

Q164. In 1970, an organized resistance to the destruction of forests spread throughout India and came to be known as-?
(a) Save Silent Valley Movement
(b) Swadeshi Movement
(c) Namantar Andolan
(d) **Chipko movement**
(e) Narmada Bachao Andolan

Q165. Damdama lake is in which state?
(a) Punjab
(b) Rajasthan
(c) **Haryana**
(d) Uttar Pradesh
(e) Bihar

Q166. The United Nations' (UN) International Day Against Drug Abuse and Illicit Trafficking falls on-
(a) 29th June
(b) 21st June
(c) 12th June
(d) **26th June**
(e) 05th June

Q167. Which of the following ministry has Launched Mobile Application " Jan Dhan Darshak" as A Part of Financial Inclusion?
(a) **Finance Ministry**
(b) Ministry of Consumer Affairs, Food and Public Distribution
(c) Ministry of Human Resource Development
(d) Ministry of Parliamentary Affairs
(e) Ministry of Commerce and Industry

Q168. While India stands _____ largest in number in terms of number of World Heritage properties in ASPAC (Asia and Pacific) region.
(a) fourth
(b) third
(c) **second**
(d) fifth
(e) first

Q169. Indian Air Force (IAF) for first time was participated in multinational air exercise_____ 2018 (PB-18) in Australia hosted Royal Australian Air Force (RAAF).
(a) Desert Strike
(b) Emerald Mercury
(c) Yudh Abyas
(d) Nomadic Elephant
(e) **Pitch Black**

Q170. How much amount is available to one account holder of Pradhan Mantri Jan Dhan Yojana per household after six months of satisfactory conduct of the account?
(a) Rs 5,000
(b) **Rs 10,000**

(c) Rs 2,000
(d) Rs 15,000
(e) Rs 20,000

Q171. Which of the following bank will allow its customers to make card-less cash withdrawals at over 100000 ATMs across India?
(a) Bank of Baroda
(b) ICICI Bank
(c) AU Small Finance Bank
(d) State Bank of India
(e) Airtel Payments Bank

Q172. cheques, Drafts, Pay Orders and Banker's Cheques are "valid for _____ months from the date of instrument.
(a) 4 months
(b) 1 months
(c) 6 months
(d) 3 months
(e) 5 months

Q173. The four pillars of smart planning are vital to the success of Smart Cities and the Regional Smart City Initiative. Which of the following pillar is not them?
(a) MOBILITY
(b) SUSTAINABILITY
(c) INFRASTRUCTURE
(d) CONNECTIVITY
(e) SECURITY

Q174. IRDAI has directed all third-party insurance companies to include vehicle insurance policies cover to vehicle owners-drivers of all vehicles (two-wheelers, three-wheelers, passenger vehicles and commercial vehicles) for an additional premium of-
(a) Rs 500
(b) Rs 750
(c) Rs 10000
(d) Rs 1000
(e) Rs 5000

Q175. As per guidelines of the RBI, payments banks can accept demand deposits (savings and current) up to a maximum of _____ per customer.
(a) Rs 1,00,000
(b) Rs 2,00,000
(c) Rs 50,000
(d) Rs 5,00,000
(e) Rs 10,000

Q176. Public Sector Enterprises (PSEs) is comes under which ministry?
(a) Ministry of Heavy Industries and Public Enterprises
(b) Ministry of Environment, Forest and Climate Change
(c) Ministry of Personnel, Public Grievances and Pensions
(d) Ministry of Corporate Affairs
(e) Ministry of New and Renewable Energy

Q177. The 91st Academy Awards ceremony will honor the best films of 2018 and will take place at the Dolby Theatre in-
(a) Tokyo
(b) Los Angeles
(c) Paris
(d) Sydney
(e) London

Q178. The global Multidimensional Poverty Index (MPI) is an international measure of acute poverty covering over 100 developing countries. Global Multidimensional Poverty Index given by-?
(a) UNESCO
(b) UNCTAD
(c) UNDP
(d) OECD
(e) UNEP

Q179. Under the Liberalised Remittance Scheme, Authorised Dealers may freely allow remittances by resident individuals up to USD _____ per

Financial Year for any permitted current or capital account transaction or a combination of both.
(a) USD 3,00,000
(b) USD 3,50,000
(c) USD 2,00,000
(d) USD 2,50,000
(e) USD 1,00,000

Q180. Digital wallet company Paytm has launched 'Paytm Money' app for mutual fund investments. The Paytm Money platform will be offering systematic investment plans (SIPs), starting at how much rupees per month?
(a) Rs 300
(b) Rs 400
(c) Rs 200
(d) Rs 500
(e) Rs 100

Q181. Which of the following organisation has approved a $25-30 billion commitment plan for India for the 2019-22 period?
(a) United Nations
(b) World Bank
(c) UNCTAD
(d) New Development Bank
(e) International Monetary Fund

Q182. Government has announced to fix MSP at a level of at least _____ per cent of the cost of production for kharif crops 2018-19 which redeems the promise made in the Union Budget for 2018-19.
(a) 50 per cent
(b) 250 per cent
(c) 200 per cent
(d) 100 per cent
(e) 150 per cent

Q183. Who are the winners of this year's Ramon Magsaysay Award 2018 from India, regarded as the Asian version of the Nobel Prize?
(a) Bharat Vatwani and Sonam Wangchuk
(b) Kailash Satyarthi and Arvind Kejriwal
(c) Bhuwan Ribhu and Asmita Satyarthi
(d) Nadia Murad and Juan Manuel Santos
(e) None of the given option is true

Q184. Nearly _____ crore jobs were created in the country in the 10-month period till June this year, as per a Central Statistics Office (CSO) report.
(a) 2.4 crore
(b) 3.5 crore
(c) 6.9 crore
(d) 1.2 crore
(e) 7.5 crore

Q185. Which organisation is a policy think tank of the Government of India, established with the aim to achieve Sustainable Development Goals and to enhance cooperative federalism by fostering the involvement of State Governments of India in the economic policy-making process using a bottomup approach?
(a) RBI
(b) IRDAI
(c) NITI Aayog
(d) Planning Commission
(e) CBDT

Q186. The World Economic Outlook (WEO) is a survey conducted and published by-
(a) WTO
(b) World Bank
(c) UNCTAD
(d) New Development Bank
(e) International Monetary Fund

Q187. Which country will chair the 2019 summit of the Association of Southeast Asian Nations (ASEAN)?
(a) Japan
(b) Singapore
(c) China
(d) Thailand
(e) Russia

Q188. Which Bank has bagged Hindi implementation award Rajbhasha Kirti Award for outstanding performance in implementing the Official Language Policy during 2017-18?
(a) Union Bank of India
(b) Indian Bank
(c) Punjab National Bank
(d) State Bank of India
(e) Bank of Baroda

Q189. Public Affairs Centre (PAC) engages in action research focussing on Sustainable Development Goals in the context of India. PAC situated in-?
(a) New Delhi
(b) Bengaluru
(c) Mumbai
(d) Kolkata
(e) Chennai

Q190. The Department of Industrial Policy and Promotion (DIPP), Ministry of Commerce and Industry, hosts a conference on Global Digital Content Market (GDCM) 2018 in which city?
(a) New Delhi
(b) Bengaluru
(c) Mumbai
(d) Kolkata
(e) Chennai