

IBPS RRB PO Mains 2018

REASONING ABILITY

Directions (1-5): 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 1950, 1953, 1961, 1968, 1972, 1985, 1996 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 2018 as the base year) They like different fruits i.e. grapes, litchi, fig, mango, guava, apple, pomegranate.

The sum of the present age of B and E is 90 years. The person who is 2nd eldest likes mango. C is younger to F. The sum of the present age of G and A is 103 years. Neither C nor A likes guava and the one who likes guava is the youngest person born before A is same as the number of persons born after the one who likes litchi. The sum of the present age of D and E is 115 years. A is younger to the one who likes grapes. The person who likes grapes is more than the persons born between the one who likes litchi and litchi. G does not like fig.

- Who among the following is the youngest?
(a) G (b) F (c) C (d) B (e) none of these
- Which among the following is the oldest and youngest respectively?
(a) E, A (b) F, C (c) C, F (d) B, D (e) none of these
- In which of the following year was E born?
(a) 1968 (b) 1950 (c) 1961 (d) 1985 (e) none of these
- Which of the following statement is true regarding F?
(a) E was born before F
(b) F is the youngest
(c) the difference between the present ages of G and F is divisible by 3
(d) F likes guava
(e) none of these
- How many persons were born between A and E?
(a) Two (b) One (c) Three (d) Four (e) None

6. **Statement:** The State Government has decided to declare 'Kala Azar' as a notifiable disease under the Epidemics Act. Family members or neighbours of the patient are liable to be punished in case they did not inform the State authorities.

Courses of action:

- Efforts should be made to effectively implement the Act.
- The cases of punishment should be propagated through mass media so that more people become aware of the stern actions.

(a) If only I follow

(b) If only II follow

(c) If both I and II follow

(d) Neither I nor II is implicit

(e) Both I and II are implicit

Statement: Companies A and B signed a deal in which they agreed to not disclose any confidential information to their company to the rivals.

Course of action: Which of the following should be the reason of the legal notice sent by company B to company A for breaching the contract?

(a) Company A was not fully receiving more amount by indulging company B in it.

(b) Company A was not disclosing the private data and confidential information of company B for its own profit.

(c) Company A was not disclosing the detail of company B for its own profit.

(d) Neither I nor II is implicit

(e) Both I and II are implicit

Directions (8-12): Study the information carefully and answer the questions given below.

Ten people are seating on two parallel rows. P, Q, R, S and T are seating in row 1 and facing towards south. A, B, C, D and E are seating in row 2 and facing north. They like different Colors- pink, blue, black, yellow and orange. Two persons like same color such that one of them is in row 1 and the other is in row 2(i.e. both the persons who like Pink colour sit in different rows)

R sits second from one of the ends. The one who sits immediate right of R faces C. P sits right to T but not immediate right. The number of persons sitting to the left of C is same as the number of persons sitting to the right of T. D faces the one who likes yellow. The one who likes pink

in row 1 faces the one who sits 2nd to the left of the one who likes pink in row 2. Only one person sits between S and the one who likes orange. The one who likes black sits 3rd to the left of the one who likes pink in row 2. More than two person sits between D and A. E does not like pink. C likes yellow. R does not like orange and pink. S faces the one who likes blue. The one who likes yellow sits immediate left to R. P does not like black.

8. Who among the following likes blue in row 1?
(a) P (b) Q (c) R
(d) S (e) none of these
9. How many persons sit between E and the one who likes black?
(a) Two (b) One (c) Three
(d) Four (e) None
10. Which of the following statement is true regarding S?
(a) E faces S
(b) A likes same color as S
(c) D faces S
(d) B sits 3rd left to the one who likes black
(e) none of these
11. Which of the following color does not belong to that group?
(a) blue (b) black (c) orange
(d) yellow (e) none of these
12. Four of the following belong to a group based on their seating arrangement. Find the one that does not belong to that group?
(a) T (b) C (c) D
(d) B (e) A

Directions (13-16): Study the following information and answer the questions given below.

A person starts walking from point A. He walks 15m east to A. He then takes a right turn and walks 20m to reach point C. From C, he takes a left turn and walks 10m to point D, then again he takes a left turn and walks 10m to point E. From E, he takes a left turn and walks 20m to reach point F. He then takes a right turn and walks 5m to reach G and finally takes a left turn to reach point H, which is 10 m away from G.

13. If J is 5m north to G, then what is the distance between A and J?
(a) 5m (b) 10m (c) 15m
(d) 20m (e) none of these
14. Four of the following five belongs to a group based on their directions find the one that does not belong to that group?
(a) A, G (b) F, C (c) B, D
(d) H, F (e) D, E
15. How far is point A from point H?
(a) 5m (b) 10m (c) 15m
(d) 20m (e) none of these

16. Which of the following is the nearest point to X, which is the mid-point of BC?
(a) E (b) F (c) C
(d) B (e) H
17. If in the number 68942735, 1 is added to second, fourth, sixth and eighth digit and 1 is subtracted from the first, third, fifth and seventh digits, then how many digits are repeated in the new number thus formed?
(a) 5 and 9 (b) 5 and 8 (c) 6, 5 and 8
(d) 9, 1 and 3 (e) None of these
18. Which alphabet is 3rd from the left in the meaningful four letter word formed from the first, second, seventh and eighth letter of the word PRODUCTION? If more than one word is formed then mark answer as X and no meaningful word is formed then mark answer as Z.
(a) T (b) X (c) P
(d) Z (e)

Directions (19-22): Study the following information and answer the questions given below.

There are nine people, G, H, I like different flowers tulip, lily, orchid, iris, Tithonian and Cosmos and live in three different cities Mumbai, Patna, Surat. Each person has a pet dog. No person has less than two and not more than four lives.

D likes tulip. B lives with H and F lives with the one who likes Tithonian. The one who likes Iris does not lives in Patna. Neither A nor H likes Iris. Iris lives with A and I. E lives with G. G does not live in Patna. H likes Rose and Lotus. D does not like Rose and the one who like Rose and the one who like Sunflower. Neither A nor I likes Sunflower.

19. Who among the following like Tulip?
(a) C (b) H (c) B
(d) F (e) None of these
20. In Which of the following city D and E live respectively?
(a) Mumbai and Surat
(b) Both in Patna
(c) Patna and Surat
(d) Both in Surat
(e) None of these
21. A likes which of the following flower?
(a) Lily (b) Tithonian (c) Cosmos
(d) Orchid (e) None of these
22. Four of the following are alike in a certain way so form a group which of the following does not belong to that group?
(a) B (b) H (c) A
(d) F (e) I

23. C lives with which among the following?
 (a) B and H (b) D, F and E (c) A, I and E
 (d) Only G (e) None of these

Directions (24-25): In each question below is given a statement followed by two assumptions numbered I and II. You have to consider the statement and the following assumptions and decide which of the assumptions is implicit in the statement.

Give answer-

- (a) If only assumption I is implicit.
 (b) If only assumption II is implicit.
 (c) If either I or II is implicit.
 (d) If neither I nor II is implicit.
 (e) If both I and II are implicit.

24. **Statement:** The 'M' Cooperative Housing Society has put up a notice at its gate that sales persons are not allowed inside the society.

Assumptions:

- I. All the sales persons will stay away from the 'M' cooperative Housing Society.
 II. The security guard is not able to stop the sales persons from entering the society.

25. **Statement:** "If it does not rain for a month, most farmers would be disappointed."

Assumptions:

- I. Timely rain is essential for the growth of crops.
 II. Most farmers are dependent on rains.

Directions (26-30): Study the following information to answer the given questions:

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

Input: 78 former 44 quicker cold taller 65 outer 27 79 tall

Step I: cold former 44 quicker 65 outer 27 79 tall

Step II: 9 cold former 44 quicker 65 outer 27 79 tall

Step III: form 9 cold 44 quicker outer 27 79 tall 66

Step IV: 28 form 9 cold 44 quicker 79 tall 66 out

Step V: quick 28 form 9 cold 79 tall 66 out 45

Step V 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: warmer 76 94 scraper locker 11 greater 52 39 adopter

26. How many steps would be needed to complete the arrangement?

- (a) IV (b) V (c) VII
 (d) VI (e) None of these

27. What will the addition of the numbers which is third from the right end in step II and 2nd from the right end in step IV?

- (a) 112 (b) 210 (c) 151
 (d) 116 (e) None of these

28. Which of the following would be the difference of the numbers which is 3rd from left end in step IV and 2nd from right end in Step II?

- (a) 90 (b) 83 (c) 25
 (d) 10 (e) None of these

29. Which of the following element will be 6th to the left of 3rd from the right end in step V?

- (a) 95 (b) adopt (c) 40
 (d) scrap (e) None of these

30. In which of the following step '39 95 warm' would be found in the same order?

- (a) Step V
 (b) Step II and III
 (c) Step II
 (d) Step III and IV
 (e) None of these

the following information for answering the questions.

Seven persons are sitting in a row facing north. G's mother is second to the left of G. M is an immediate third to the left of M. Only one person sits between L's daughter and M. B is the left of L's daughter. V is D's father. Q sits to the left of L.

sitting between Q and L?

32. How many persons sit to the left of L?

- (a) One
 (b) Three
 (c) More than three
 (d) Two
 (e) None

33. Who among the following is the grandson of M?

- (a) D and B (b) L (c) V and B
 (d) Q and D (e) D

34. How is D related to G?

- (a) Sister (b) Brother (c) Mother
 (d) Father (e) Sister-in-law

35. Who among the following sit forth to the right of B's father?

- (a) M (b) L (c) V
 (d) Q (e) D

Directions (36-38): 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;

- (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 even 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

36. In a family of six persons who is the father of E?

- I. C is the son-in-law of D and D is the grandmother of E.
- II. E is the son of X, who is the father of X.

37. Five persons are sitting around a circular table facing the center. Who among the following is sitting immediately to the left of C?

- I. B sits second to the right of A. D sits second to the right of B. Two persons sit between D and E.
- II. D sits second to the left of A. E is not an immediate neighbor of A.

38. Six persons P, Q, R, S, T and U were born in the months January, March, May, July, August and October of a year. Only one person was born in the month of January. Who among the following was born immediately before T?

- I. P was born after July. Only one person born between S and P. Q was born immediately before P. R was born after P. T was born before S.
- II. S was born in May. P was born after S. Only two person were born between P and T.

Direction (39-40): Statement- The CMC products are quite popular and has been commonly used by the people of city X, as it became so popular among the people who are getting health benefits from it. But recently we have seen a sudden decline in the demand of the products.

39. Which of the following can be concluded from the given statement?

- (a) The CMC products are not so popular in city Y.
- (b) The CMC products with so many health benefits are very famous and in regular use by the people of city X.
- (c) The quality of the products is not that good as it was initially of the CMC products.
- (d) A rival company which has come up with its product with lower price are becoming popular among the people of city X.

40. Which of the following can be inferred about the decline in the demand of CMC products?

- (I) The quality of the products offered by CMC reduced which led to the decline in the demand of the products.
- (II) The price of CMC products after the introduction of a rival company which in turn reduces its demand.

41. Which of the following can be inferred about the decline in the demand of CMC products?

- (I) The quality of the products offered by CMC reduced which led to the decline in the demand of the products.
- (II) The price of CMC products after the introduction of a rival company which in turn reduces its demand.

42. Which of the following can be inferred about the decline in the demand of CMC products?

- (a) Only I and II
- (b) Only III
- (c) Only II and IV
- (d) All of the above
- (e) Only I

QUANTITATIVE APTITUDE

41. In a bag, there are 8 black balls and 12 yellow and green balls. If the probability of choosing a green ball from the bag is 0.35 then, find the probability of choosing two yellow balls from the bag if the ball chosen is not replaced.

- (a) $\frac{2}{19}$ (b) $\frac{4}{95}$ (c) $\frac{1}{19}$
- (d) $\frac{6}{95}$ (e) None of these

42. A hemisphere is mounted on cylinder and the radius of both is same i.e. 7 cm. Find the height of cylinder if the total volume of hemisphere and cylinder is $3952\frac{2}{3}$ cm³.

- (a) 21 cm (b) 14 cm (c) $17\frac{1}{2}$ cm
- (d) 28 cm (e) None of these

Directions (43-47): The given table shows the number of classes taken by four different guest tutors (A, B, C and D) on different days in a week and honorarium paid to them for each class.

Tutors	Number of classes taken each on Monday, Tuesday and Wednesday	Number of class taken each on Thursday & Friday	Honorarium paid for each class (In Rs)
A	2	0	5000
B	3	—	8000
C	1	3	6000
D	2	2	4000

Note:

(i) Saturday and Sunday are Holiday.

(ii) '—' is missing value

(iii) Each class is of one hour.

- 43.** Find the ratio of number of classes taken by A to the number of classes taken by D in a week?
 (a) 4 : 5 (b) 3 : 5 (c) 2 : 3
 (d) 9 : 10 (e) No
- 44.** Find the number of classes taken by A and an honorarium of Rs. 3.78 lakhs for his course.
 (a) 45 (b) 54
 (d) 81 (e) 63
- 45.** Find the difference between honorarium paid to C, if he teaches for 3 weeks to D, if he teaches for 2 weeks.
 (a) Rs. 82,000 (b) Rs. 88,000
 (d) Rs. 90,000 (e) Rs. 92,000
- 46.** If honorarium paid to A for a course is Rs. 5.28 lakhs at completion of his course, then honorarium paid to B and D together in 2 weeks is approximately what percent of the honorarium paid to A in 4 weeks?
 (a) 105% (b) 110% (c) 114%
 (d) 120% (e) 125%
- 47.** If B takes no classes on Thursday and Friday in a particular week then honorarium paid to A is what percent of that of B in that week?
 (a) $38\frac{1}{3}\%$ (b) $42\frac{1}{3}\%$ (c) $41\frac{2}{3}\%$
 (d) 45% (e) $46\frac{2}{3}\%$
- 48.** 40 men together complete a work in 12 days while 12 women together complete that work in 48 days. All men started working together and on every next day 10 men left the work and after four days, 16 women joined to do the remaining work then find the time taken by 16 women to do the remaining work?
 (a) 25 days (b) $22\frac{1}{2}$ days (c) 30 days
 (d) $28\frac{1}{2}$ days (e) $32\frac{1}{2}$ days
- 49.** A shopkeeper allows a discount of 30% on marked price of an article and customer also managed to get additional 10% discount on discounted price and in amount of Rs.925. If shopkeeper on selling the article then find the marked price of the article?
 (a) Rs. 1800 (b) Rs. 1600
 (c) Rs. 1500 (d) Rs. 1700
- 50.** A and B started a business by investing Rs. 10,000 and Rs. 9,000 respectively. After 8 months, A and B both withdrew their amount and C joined the business with Rs. 10,000. If at the end of year, the share of A and B is Rs. 576. Find the share of C?
 (a) Rs. 576 (b) Rs. 540
 (c) Rs. 510 (d) Rs. 480
 (e) Rs. 450
- 51.** Find the ratio between Others expense in 2015 to Salary expense in 2017?

52. Average salary expense in 2015 is what percent less than that in 2017?

- (a) None of the given options
- (b) 10%
- (c) 15%
- (d) 5%
- (e) 25%

53. If average employees in 2015, 2017 and 2018 is 82. Find number of employees in 2018?

- (a) 86
- (b) None of the given options
- (c) 76
- (d) 66
- (e) 56

54. Female employees in 2016 is 45 more than male employees in 2016. Find the ratio between male to female employees in 2016?

- (a) 11 : 9
- (b) 5 : 2
- (c) 2 : 5
- (d) 9 : 11
- (e) None of the given options

55. Find the difference between Salary expense in 2015 to Salary expense in 2017

- (a) 10,000
- (b) 90,000
- (c) 100,000
- (d) 40,000
- (e) None of the given options

Directions (56-60): In each question, two equations numbered (I) and (II) are given. Solve both equations and mark appropriate option.

56. I. $x^3 = -512$

II. $2y^2 + 20y + 48 = 0$

- (a) $x \geq y$
- (b) no relation can be established between x and y
- (c) $x > y$
- (d) $x < y$
- (e) $x \leq y$

57. I. $x^2 + 47 = 72$

II. $(y - 2)^2 = 3(y - 2)$

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

58. I. $2x^2 + 3x + 1 = 0$

II. $2 + \frac{1}{y} + y = 0$

- (a) no relation can be established between x and y
- (b) $x \geq y$
- (c) $x \leq y$
- (d) $x > y$
- (e) $x < y$

59. I. $(x - 5)^2 = 16$

II. $y^2 + 8y = 84$

- (a) $x \geq y$
- (b) $x < y$
- (c) no relation can be established between x and y
- (d) $x > y$
- (e) $x \leq y$

60. I. $2 - \frac{7}{x} + \frac{6}{x^2} = 0$

II. $\frac{15}{y^2} - \frac{22}{y} + 8 = 0$

- (a) $x \leq y$
- (b) $x > y$
- (c) $x \geq y$
- (d) no relation can be established between x and y
- (e) $x < y$

61. Boat A travels $62\frac{1}{2}$ km in upstream in $2\frac{1}{2}$ hrs. The speed of another boat B in still water is 80% of the speed of boat A in downstream and the speed of stream for both boat A and B is same i.e. 2.5 km/hr. Find the distance travelled by boat B in upstream in 4 hours.

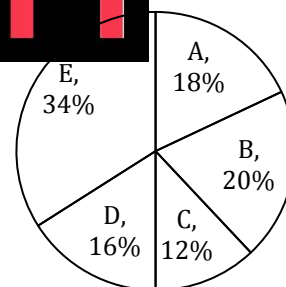
- (a) 82 km
- (b) 86 km
- (c) 88 km
- (d) 84 km
- (e) 94 km

62. Ratio of A's age 4 years later to B's age 6 years later is 23 : 4. If A's present age is twice the age of B, whose present age is twice the age of C, find the age of C.

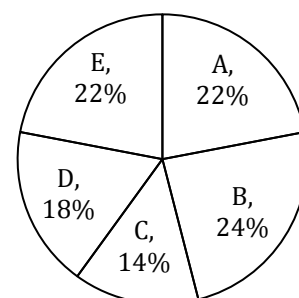
- (a) 12 years
- (b) 10 years
- (c) 15 years
- (d) 14 years

Directions (63-65): The following pie chart shows the number of tourists applied for U.S.A + CANADA + EUROPE. The second pie chart shows the number of tourists applied for U.S.A. Study the data and answer the following questions.

Tourist (U.S.A + CANADA + EUROPE) = 5500



Tourist (U.S.A) = 2500



63. Ratio between number of tourists applied for CANADA to ENGLAND is 57 : 29 from city D. Find number of tourists applied for CANADA from city D is **approximately** what percent of the total tourists applied for visa from city D?

(a) 28% (b) 32% (c) 54%
(d) 38% (e) 44%

64. Find the central angle of total tourists applied from city E?

(a) 129.6° (b) 112.4° (c) 115.2°
(d) 100.8° (e) 122.4°

65. Tourists applied for Canada from city A is 120 more than tourists applied for England from city A. Find total number of tourists applied for Canada from city A?

(a) 160
(b) None of the given options
(c) 180
(d) 280
(e) 260

66. Find the difference between number of tourists applied for Canada and England from city E? Number of tourists applied for Canada from city E?

(a) 880 (b) 990
(d) None of the given options

67. Out of total tourist applied from city B and city E, 24% and 72% respectively went to U.S.A. Find the ratio between number of tourists from city B to city E?

(a) 4 : 11
(b) None of the given options
(c) 5 : 22
(d) 7 : 11
(e) 6 : 11

68. A person invested in scheme A at X% per annum at SI for 5 years and in scheme B at 10% per annum for 2 years at CI. If the amount invested in both schemes are in the ratio of 2 : 5 (A : B) and the total interest received from both the schemes is 35% of the total amount invested together in both the schemes then find value of X?

(a) 14% (b) 16% (c) 21%
(d) 28% (e) 35%

69. Ruchi's monthly salary is Rs. 60,000. She spends Rs. 12,000 on education of her child and Rs. X on her house rent. Further she spends $\frac{1}{7}$ and $\frac{1}{6}$ of the remaining amount on Food and shopping needs and the remaining Rs. 29,000 invested in some scheme. Then find the value of X.

(a) Rs. 7,000 (b) Rs. 13,000 (c) Rs. 16,000
(d) Rs. 6,000 (e) None of these

Directions (70-74): The following questions are accompanied by two statements I and II. You have to determine which statements (s) is / are sufficient / necessary to answer the questions.

70. If there are only three members (Father, Mother and Daughter) in the family then find the age of daughter?

I. If two years later the average age of all members of the family will be 28 years and six years ago average age of Father and Mother was 30 years.

II. If two years ago ratio of age of Father to that of Daughter is 9 : 1 and Father's present age is four years more than Mother's present age and sum of their ages is 72 years.

(a) Statement I alone is sufficient to answer the question but statement II alone is not sufficient to answer the question.

(b) Statement II alone is sufficient to answer the question but statement I 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 I or statement II by itself is sufficient to answer the question.

(e) Statements I and II taken together are not sufficient to answer the question.

71. Bhavya started a business by investing Rs. 50,000. Find investment of Veer.

I. Veer and Bhavya together invested Rs 9,000 in the business. Veer left after one year.

II. Bhavya invested Rs 2000 more next year and got Rs 3400 out of total profit Rs 50,000.

(a) Statement I alone is sufficient to answer the question but statement II alone is not sufficient to answer the question.

(b) Statement II alone is sufficient to answer the question but statement I 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 I or statement II by itself is sufficient to answer the question.

(e) Statements I and II taken together are not sufficient to answer the question.

72. A person travels from point A to B and back from point B to A. Find average speed of the person during whole journey if distance between A to B is 100km.

I. Person takes 30 min more while coming back to the initial point.

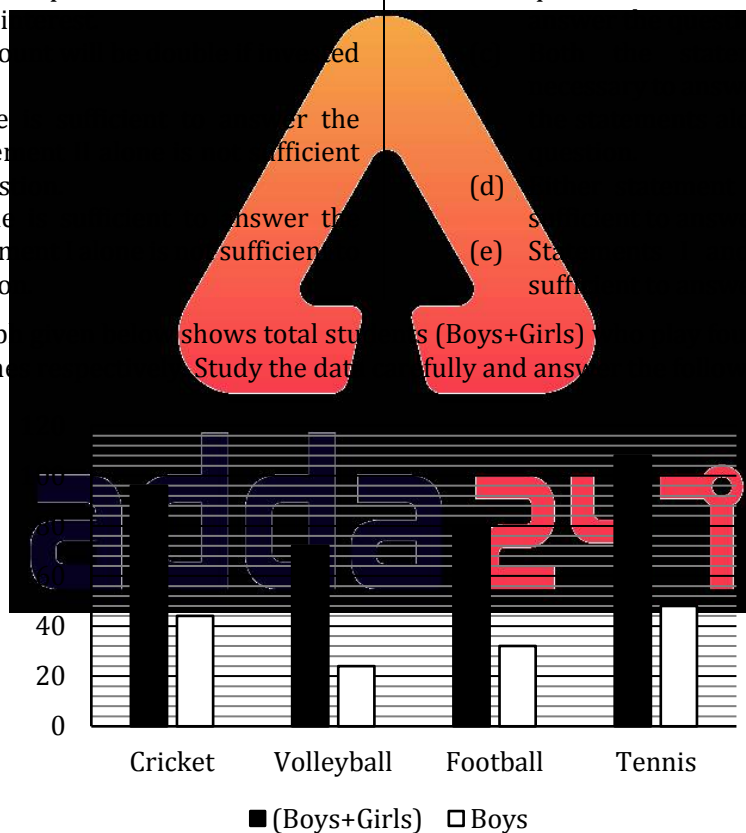
II. Speed of person from A to B is $6\frac{2}{3}$ km /hr more than that of from B to A and ratio of time taken from A to B to that of B to A is 5 : 6.

- (a) Statement I alone is sufficient to answer the question but statement II alone is not sufficient to answer the question.
- (b) Statement II alone is sufficient to answer the question but statement I 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 I or statement II by itself is sufficient to answer the question.
- (e) Statements I and II taken together are not sufficient to answer the question.

73. Find the rate of interest p.c.p.a (take rate of interest same for Simple interest and Compound interest)?

- I. When Rs. 25,000 invested for 2 years at that rate of interest, then compound interest is Rs.250 more than simple interest.
- II. After 10 years amount invested at Simple interest.
- (a) Statement I alone is sufficient to answer the question but statement II alone is not sufficient to answer the question.
- (b) Statement II alone is sufficient to answer the question but statement I alone is not sufficient to answer the question.

Direction (75-79): Bar graph shows total students (Boys+Girls) who play these games and number of boys who plays these games.



75. Find the ratio between total number of students (Boys+Girls) who play Cricket, Volleyball and Tennis to total number girls who play Volleyball and Football?

- (a) None of the given options
- (b) 21 : 8
- (c) 23 : 16
- (d) 23 : 8
- (e) 21 : 16

- (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 I or statement II by itself is sufficient to answer the question.
- (e) Statements I and II taken together are not sufficient to answer the question.

74. Find time taken by A to cross B, if B has a head start of 30m and they run in same direction at same time?

- I. Speed of B is twice of relative speed of A and B.
- II. If B started 2 seconds earlier, then A took 16 seconds to cross B.
- (a) Statement I alone is sufficient to answer the question but statement II alone is not sufficient to answer the question.
- (b) Statement II alone is sufficient to answer the question but statement I alone is not sufficient to answer the question.

76. Total number of boys who play Cricket and Football is how much less than total students (Boys+Girls) who play Football and Tennis?

- (d) or statement II by itself is sufficient to answer the question.
- (e) Statements I and II taken together are not sufficient to answer the question.

77. Find the ratio between total number of students (Boys+Girls) who play Cricket, Volleyball and Tennis to total number girls who play Volleyball and Football?

- (a) None of the given options
- (b) 21 : 8
- (c) 23 : 16
- (d) 23 : 8
- (e) 21 : 16

76. Total number of boys who play Cricket and Football is how much less than total students (Boys+Girls) who play Football and Tennis?

- (a) 112
- (b) 116
- (c) 118
- (d) None of the given options
- (e) 114

77. Total number of boys who play Volleyball and Tennis is what percent of the total girls who play same game?
 (a) $33\frac{1}{3}\%$
 (b) None of the given options
 (c) $66\frac{2}{3}\%$
 (d) 50%
 (e) 25%
78. Out of total boys and girls play Football, 50% and $33\frac{1}{3}\%$ respectively qualified for nationals. Find total students (Boys+Girls) who were disqualified for nationals is what percent of total students (Boys+Girls) who play this game?
 (a) 40%
 (b) 60%
 (c) 50%
- (d) None of the given options
 (e) 80%
79. Find the average number of girls who play Volleyball, Football and Tennis?
 (a) 54
 (b) 52
 (c) None of the given options
 (d) 56
 (e) 50
80. A container contains 120 lit of pure milk. If X lit of pure milk is replaced with Y lit of water then ratio of milk to water becomes 20 : 1 and if 2X lit of pure milk were replaced by Y lit of water, then ratio of milk to water becomes 16 : 1. Find the value of 'X+Y'?
 (a) 20 (b) 25 (c) 24
 (d) 30 (e) 16

Direction (81-90): Read the passage carefully and answer the questions given in bold to help you locate some of the questions.

Ayushman Bharat has been a protection scheme that will provide treatment that is free at the point of delivery to about 40% of the population selected on the basis of economic indicators. It is the first step towards universal health coverage, which has been a goal of the NDA government quite long. The government has kept an eye on the 2019 general election and announced that 10.74 crore people will be covered under the Pradhan Mantri Jan Arogya Yojana (the insurance component of the scheme), the question of eligibility appears settled. But the late start makes it virtually impossible for all those who are technically insured to **avail** the services that state agencies must make available, within a reasonable time-frame. And, the allocation of just Rs.2,000 crore during the current year to the PMJAY cannot provide the promised cover to the large population sought to be included. Not all States and Union Territories are in a position to raise their own share, and a few have not even joined the scheme. The challenge of funding, therefore, remains. And without adequate budgetary commitments, the implications of pooling the financial risk for such a large segment of the population through insurers or state-run trusts or societies make the outcomes uncertain.

Guaranteeing health-care access using private or public facilities presumes tight cost control. In the case of the

...carefully PMJAY, ... packages ... are prescribed. Costs are a ... are-providers and the Centre, ... many ... see the government's ... the absence of adequate ... Bharat administration is ... importantly, a lot of time has ... government's tenure, when State ... been persuaded to regulate the ... Clinical Establishments ... (regulation) Act, which dates back to ... provides for standardization of ... rates for procedures. ... prompted Ayushman Bharat administrators to announce that some key treatments should be availed through public sector institutions. But public facilities have been neglected for long. Going forward, there are some clear imperatives. It is essential to reduce the pressure on secondary and tertiary hospitals for expensive treatments by investing in preventive and primary care facilities. Here, the 150,000 health and wellness centres of the National Health Protection Mission can play a valuable role. The first-order priority should be to draw up a road map for universal health coverage, through continuous upgradation of the public sector infrastructure.

As Prime Minister Narendra Modi launched his government's ambitious healthcare scheme Ayushman Bharat on Sunday, five states remained unconvinced. Telangana, Odisha, Delhi, Kerala and Punjab have said they will not implement the programme till their concerns are addressed since they have better health assurance

schemes."Ayushman Bharat doesn't only provide financial support, but in the next 4 years it is **envisaged** that nearly 1.5 lakh next door wellness centres will be opened, which will provide free test facilities and treatment of simple ailments. Ayushman Bharat, dubbed as the world's largest government-funded healthcare scheme, is expected to benefit 50 crore citizens. Thirty-one states and union territories have agreed to implement the programme that will entitle nearly 10 crore economically backward families to health coverage of Rs. 5 lakh each.

The government is pursuing a holistic approach towards the betterment of the health sector. While it focuses on affordable healthcare on one hand, emphasis is also laid on preventive healthcare. The number of Ayushman Bharat beneficiaries is almost equal to the population of Canada, Mexico and the United States put together. NITI Aayog member Dr Vinod Paul said the scheme -- to be funded on a 60:40 ratio by the centre and state -- will come into effect from September 25, the birth anniversary of the late B.R. Ambedkar. The Swayamsevak Sangh ideologue and former Union Minister Upadhyay. Over 8,735 hospitals, including private, have been **empanelled** for the scheme. As 31 states and union territories have agreed to implement the programme, the Centre to implement the programme, said.

81. What according to the passage is the reason for the launching of Ayushman Bharat by the government?
- Continuous upgrade of health infrastructure.
 - Treatment to be available in all institutions.
 - To reduce the pressure on tertiary hospitals.
 - The general election is approaching.
 - All of these
82. Why the outcomes of Ayushman Bharat are portrayed as uncertain?
- As it requires standardization of facilities and reasonable rates for procedures.
 - Due to a lack of budgetary support.
 - Due to a viability in government's proposals.
 - Since the government is pursuing a holistic approach towards the betterment of health sector.
 - All of these.
83. In the passage, author has cited the law that imparts for normalization of facilities and reasonable rates for procedures. Which law is it?
- Pradhan Mantri Jan Arogya Yojana
 - Consumer Protection Act and Medical Profession
 - Clinical Establishments (Registration and Regulation) Act
 - Drugs and Cosmetics Act, 1954
 - The Pre Natal Diagnostic Techniques Act and Rules

84. What is/are the factor(s) that has influenced some of the states to not implement the Ayushman Bharat programme?

- That it is a world's largest government's funded healthcare scheme but withstands the financial risks.
- Because it has been launched by the NDA government quite late and that too not for the betterment of health sector.
- As the approach of this scheme is very diffused and fragmented.
- Since these states have better health insurance schemes.
- All of these.

85. Which of the statement is definitely false according to the passage?

- The outcomes of Ayushman Bharat Scheme are uncertain and there are implications of pooling resources.
- States and union territories have agreed to implement the programme that will benefit the economy.
- Primary, secondary and tertiary healthcare services must be provided in preventive and primary care.
- The main objective of government under Ayushman Bharat is only on affordable healthcare.
- None of these.

86. Choose the word which is most nearly OPPOSITE in meaning as the word printed in bold as used in the passage.

- Appointed
- Disclaimed
- Endorsed
- Condemned
- Sanctioned

87. **Avail**

- Bruise
- Afflict
- Utilize
- Grieve
- Mutilate

88. **Apprehensions**

- Anxiety
- Axiom
- Conviction
- Certitude
- Verity

Directions (89-90) : Choose the word which is the OPPOSITE in meaning as the word printed in bold as used in the passage.

89. **Envisaged**

- Factual
- Anticipate
- Envision
- Foresee
- Contemplate

90. **Empanelled**

- Enlisted
- Enrolled
- Constituted
- Allocated
- Ousted

Directions (91-95): In each of the following questions, a sentence is given with four words given in bold. The word may be mis-spelt or grammatically or contextually incorrect. You have to choose the incorrect word as your answer. If all the words are correct, mark option (e). i.e. All are Correct as your answer.

91. The government is right to **supersede** the **broad** of Infrastructure Leasing & Financial Services (IL&FS), given the large size and **exposure** of insurance, mutual funds and provident funds to the **entity**.
 (a) supersede (b) broad (c) exposure
 (d) entity (e) All are correct
92. In 1994, Allison, who was then at the University of California, Berkeley, **reported** that CTLA-4, a protein present on T-cells, **derailed** the immune system's **assault** on cancer cells by acting as a **broke**.
 (a) reported (b) derailed (c) assault
 (d) broke (e) All are correct
93. Chile's experience was a **stagnant** gathering, rules that **harm** carbon emission permits/coupled with **physical** monitoring and **enforce** government authorities.
 (a) miring (b) harm (c) physical
 (d) enforcement (e) All are correct
94. We **anticipate** that **like** will be **accompanied** by a change in policy from **neutral** to **accommodation**.
 (a) anticipate (b) accompany
 (d) accommodation
95. Financial **inclusion** has been one of the most **robust** forces for the next growth revolution in the 21st century, **increasing** GL point, provided policymakers pull the right levers.
 (a) inclusion (b) robust (c) propel
 (d) increasing (e) All are correct

Directions (96 -102): In the following passage there are blanks, each of which has been numbered. These numbers are printed below the passage and against each, five words/phrases are suggested, one of which fits the blank appropriately. Find out the appropriate word/phrase in each case.

Police **(96)** water cannon and tear-gas shells to **(97)** thousands of farmers, affiliated to the Bhartiya Kisan Union (Tikait group), who tried to break through barricades to enter the national capital on the Delhi-U.P. border at Ghazipur on Tuesday morning, even as **(98)** negotiations between BKU leaders and Central Ministers failed to end the stand-off.

Prohibitory orders under Section 144 were issued and 3,000 police personnel **(99)** to ensure that the Kisan Kranti Yatra, which began from Tikait Ghat in Haridwar on September 23, was **(100)** from entering Delhi.

Violence erupted as a section of the farmers tried to **(101)** through the barricades using tractor-trolleys. As clashes broke out, the police used tear-gas and water cannon. Seven policemen and several protesters were injured.

Seeking to **(102)** the farmers to return, the government announced that a committee of Chief Ministers would investigate their demands. Home Minister Rajnath Singh held discussions with Union Agriculture Minister Radha Mohan Singh and other Ministers, after which Minister of State for Agriculture Gajendra Singh Shekhawat met the protesters to assure them that their demands would be investigated. BKU chief Naresh Tikait, however "not satisfied" with the

96. (a) provoked (b) provoked (c) fired
 (d) provoked (e) provoked
97. (a) flag (b) flag (c) zap
 (d) gall (e) gall
98. (a) belated (b) belated (c) restless
 (d) erroneous (e) erroneous
99. (a) clamb (b) clamb (c) clenched
 (d) labor (e) labor
100. (a) doped (b) doped (c) collated
 (d) doped (e) doped
101. (a) case (b) case (c) dwindle
 (d) dec (e) dec
102. (a) admonish (b) berate (c) abolish
 (d) sway (e) camouflage

Directions (103 - 110): Read each sentence to find out whether there is any grammatical error in it. The error, if any, will be in one part of the sentence. The number of that part is the answer. If there is no error, the answer is (e). (ignore the errors of punctuation, if any.)

103. Often in political campaigns, a point is reached (a)/ at which the candidates (b)/ take out their gloves (c)/ and start slugging with bare fists. (d)/ no error. (e)
104. People are worried (a)/ more because of the frequency (b)/ of occurrence of the crime rather (c)/ than the magnitude of the crime. / (d). No error. (e)
105. The number of students (a)/ competing in the event (b)/ has been fallen (c)/ because of want of incentive. (d)/ No error. (e)

106. When he used to walk (a)/ along the road, (b)/ a wild and ferocious dog (c)/ knocked him down. (d)/ No error. (e)

107. Even very small reservoirs (a)/ impounding water seasonally (b)/ can cause deformation in (c)/ the neighbouring region. (d)/ No error (e)

108. Sometimes they may also show you (a)/ a fake flight ticket they booked just to meet you (b)/ but had to cancel because (c)/ of an urgent work or health issue (d)/. No error (e)

109. The idea of (a)/ introducing genes to correct (b)/ heritable and other disorders (c)/ are revolutionary. (d)/ No error (e)

110. The students requested their (a)/ Principal to be enough kind to (b)/ grant them five thousand rupees for (c)/ the reconstruction of the tennis court. (d)/ No error (e)

Directions (111-115): In each of the following sentences, there are two blank spaces. Below each sentence are five pairs of words denoted by (a) and (b), (c) and (d), and (e). Find out which pair of words will make the sentence grammatically and meaningfully complete.

111. Leisure must be spent _____ otherwise the devil will win. (a) positively, care (b) constructively, better (c) pro-actively, thought (d) objectively, energy (e) purposefully, measure

112. Nothing is impossible in the world which were _____ missiles pointed at each other and themselves in military alliances. (a) implacable, partners (b) incessant, capsized (c) deadly, approaching (d) known, soliciting (e) clandestine, surreptitious

113. Inferring attitudes from expressed opinion has many _____. People may _____ their attitude and express socially acceptable opinions. (a) limitations, conceal (b) advantages, show (c) drawbacks, support (d) benefits, avoid (e) reasons, acknowledge

114. We should move towards a system where the banks can _____ capital in the market with _____ safeguard so that they continue to be public sector banks.

- (a) improve, proper
- (b) strengthen, durable
- (c) raise, adequate
- (d) stimulate, effective
- (e) provide, delicate

115. Governments in India seem to delight in arbitrary censorship under the _____ of _____ the public.

- (a) garb, upholding
- (b) pretext, protecting
- (c) context, strengthening
- (d) command, authorising
- (e) guise, winning

Directions (116-120): In the following questions rearrange the sentences given to form a meaningful paragraph and choose the appropriate sequence of the coherent paragraph.

116. (A) This is primarily because of restrictive export policies (minimum export prices, export bans or

domestic marketing policies under the Essential Commodities Act, APMC,

the Export-Import Policy, and the Foreign Trade Development Corporation (FTDC) for India. (B) The Export-Import Policy (PSE) for India was revised in 2016, which reduced the export duty from 14 per cent of the gross value added to 10 per cent of the gross value added for the period 2000-01 to 2016-17.

(C) The Export-Import Policy, conducted jointly by the Ministry of Commerce and Industry, has been estimated that India's trade policies have inflicted a huge burden upon the country's economy.

(D) Most of the export policies support agriculture to ensure the growth of the sector and to enhance farmers' income.

(E) The government has taken various instruments to support farmers including subsidised fertilisers, power, crop insurance on the input side, and minimum support prices for major crops on the output side.

- (a) DEACB (b) BADEC (c) CDEAB
- (d) ABCDE (e) DECBA

117. (A) Mountbatten parried him by telling that he would first go to meet the Maharaja, 'who was an old acquaintance'. The visit took place during June 18- 23.

(B) Mountbatten advised Hari Singh not to make the independence declaration.

(C) Gandhi met Mountbatten early in June, wanting to visit Kashmir instead of Nehru or 'prepare the way for Pandit Nehru'.

(D) However, Mountbatten's mission was a failure.

(E) He conveyed Patel's message that 'the States Department were prepared to give an assurance that, if Kashmir went to Pakistan, this would not be regarded as unfriendly by Government of India'.

- (a) DEACB (b) BADEC (c) CABED
- (d) ABCDE (e) DECBA

118. (A) While road dust and pollution from heavy vehicles are primarily responsible for the noxious pall that sets on Delhi and other urban centres, the burning of paddy stubble by farmers to clear their fields for the next crop is considered to be responsible for 20% of the smog.

(B) There is a 50% subsidy to farmers, and a 75% waiver to cooperative societies, agencies that rent out equipment, farmers' interest groups or gram panchayats to buy such machines.

(C) To address this, the Centre is partnering with Punjab, Haryana and Uttar Pradesh to provide farmers with a range of mechanised implements to clear their fields of paddy crop residue to prepare for sowing wheat.

(D) This year will be a crucial test for a scheme piloted by the Union government to address the winter haze.

(E) States have got nearly Rs 650 crore to help farmers buy subsidies for Happy Seeder, paddy Tiller Drill.

(F) The onset of the winter haze to be associated with to pollution in north India.

- (a) DEFACB (b) FEDCB (c) BEDF (d) ABCFDE (e) DEFCB

119. (A) The aim of the NHP is to provide medical insurance to 10 crore families with medical insurance of Rs 5 lakh per household per year.

(B) The country's expenditure on health is 10% globally, at 68%, and 100 spent by the government comes from their pocket.

(C) In comparison, the out-of-pocket expenditure is much lower in China, at 34%, and in the US it is 11%.

(D) With the announcement of the National Health Protection Scheme (NHPS), India has embarked on the path of universal health coverage.

(E) India, currently, has a highly inadequate social security structure, and the situation is especially dire in healthcare.

- (a) CAEBD (b) BAEDC (c) ECDAB (d) DAEBE (e) DABEC

120. (A) In fact, what's worrying is that some of these expensive plants may end up being liquidated because lenders would resist selling them at big haircuts, fearful of being questioned by the investigative agencies.

(B) What is more important, however, is that it won't be able to clear the debt faced by these plants and postpone the day of reckoning. The power minister RK Singh is of the view that RBI it should provide lenders for these assets.

(C) The government bank will make exceptions for these assets.

(D) The government will make exceptions for these assets.

(E) With the 100 MW of power plants already of fuel or power purchase agreement, and likely to be sold for a price to non-performing assets on end up in the NCLT, it is the government is seriously

- (a) CAEBD (b) BAEDC (c) ECDAB (d) DAEBE (e) DABEC



Solutions

REASONING ABILITY

Directions (1-5):

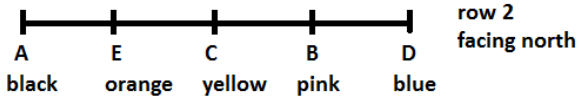
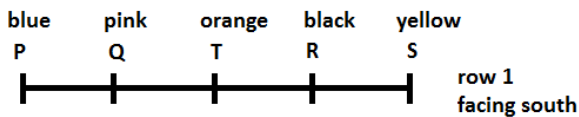
Year	Person	Fruit
1950	F	Fig
1953	D	Mango
1961	E	Guava
1968	A	Apple
1972	G	Litchi
1985	B	Grapes
1996	C	Pomegranate

1. (b); 2. (b); 3. (c);
4. (e); 5. (e);

6. (b); Only II is implicit as it is given in the statement that both the companies signed the contract for not revealing the details of their company with the rivals but company A may have done this and breached the contract, so the company B sent the legal notice to company A.

7. (e); The Act is aimed at eradication of the disease and so it needs to be proclaimed and promoted. So, both the courses follow.

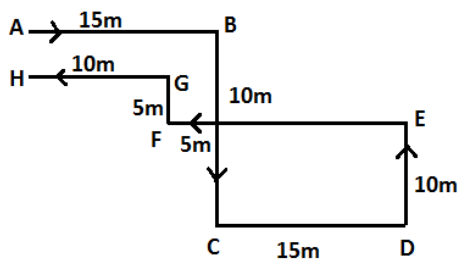
Directions (8-12):



8. (a); 9. (e); 10. (c);

11. (b); 12. (e);

Directions (13-16):



13. (b); 14. (e);

16. (b);

17. (b);

68942735

59851826

18. (e); From the first, second, third, fourth, fifth, sixth, seventh, eighth, ninth, tenth, eleventh, twelfth, thirteenth, fourteenth, fifteenth, sixteenth, seventeenth, eighteenth, nineteenth, twentieth, twenty-first, twenty-second, twenty-third, twenty-fourth, twenty-fifth, twenty-sixth, twenty-seventh, twenty-eighth, twenty-ninth, thirtieth, thirty-first, thirty-second, thirty-third, thirty-fourth, thirty-fifth, thirty-sixth, thirty-seventh, thirty-eighth, thirty-ninth, fortieth, forty-first, forty-second, forty-third, forty-fourth, forty-fifth, forty-sixth, forty-seventh, forty-eighth, forty-ninth, fiftieth, fifty-first, fifty-second, fifty-third, fifty-fourth, fifty-fifth, fifty-sixth, fifty-seventh, fifty-eighth, fifty-ninth, sixtieth, sixty-first, sixty-second, sixty-third, sixty-fourth, sixty-fifth, sixty-sixth, sixty-seventh, sixty-eighth, sixty-ninth, seventieth, seventy-first, seventy-second, seventy-third, seventy-fourth, seventy-fifth, seventy-sixth, seventy-seventh, seventy-eighth, seventy-ninth, eightieth, eighty-first, eighty-second, eighty-third, eighty-fourth, eighty-fifth, eighty-sixth, eighty-seventh, eighty-eighth, eighty-ninth, ninetieth, ninety-first, ninety-second, ninety-third, ninety-fourth, ninety-fifth, ninety-sixth, ninety-seventh, ninety-eighth, ninety-ninth, one hundredth.

Direction (19-23):

Persons	City	Plant
A	Patna	Cosmos
B	Patna	Iris
C	Mumbai	Tulip
D	Surat	Lily
E	Surat	Sunflower
F	Surat	Orchid
G	Mumbai	Tithonian
H	Patna	Rose
I	Patna	Lotus

19. (a); 20. (d); 21. (c);

22. (d); 23. (d);

Directions (24-25):

24. (e); As from the given statement we can assume that the notice on the gate of 'M' housing society will be followed by all the sales persons. Also it can be assumed that the security guards are not be able to stop so the requirement of notice is

emerged. Since both the assumptions follow from the given statement, so both I and II are implicit.

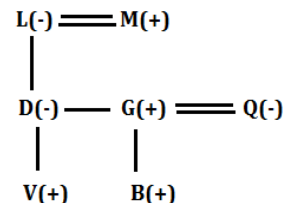
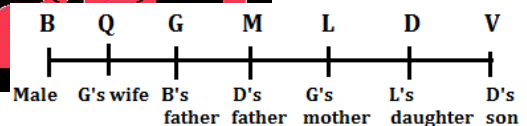
25. (e); It is mentioned that farmers will be in trouble without rain. This means that timely rain is essential. Also, it shows that farmers are dependent on rain. So, both I and II are implicit.

Direction (26-30):

In the given input output, one word and one number is arranged in each step. In odd numbered steps such as I, III and V the word is getting arranged from the left end while the number is getting arranged from the right end. While in even numbered steps such as II and IV the numbers are arranged from the left end while the words are arranged from the right end. For step I- The word which is first according to the alphabetical order is arranged from the left end while the highest number is arranged from the right end and so on in the odd steps. For step II- The word which is second according to the alphabetical order is arranged from the left end while the second highest number is arranged from the right end and so on in even steps. Also in each step, the word which is first according to the alphabetical order is added by 1 and 'er' is removed while arranging.

Input: warm 52 39 95 11 greater locker 77 scrap
Step I: adopt 52 39 95 11 greater locker 77 scrap
Step II: 12 adopt 52 39 95 11 greater locker 77 scrap
Step III: great 12 adopt 52 39 95 11 greater locker 77 scrap
Step IV: 40 great 12 adopt 52 39 95 11 greater locker 77 scrap
Step V: lock 40 great 12 adopt 52 39 95 11 greater locker 77 scrap

28. (b);

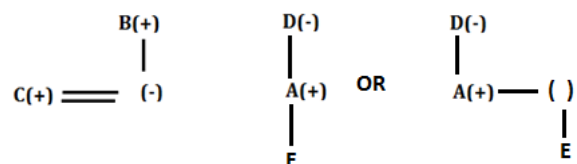


31. (d); 32. (c); 33. (c);

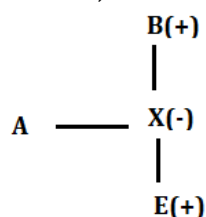
34. (a); 35. (c);

Direction (36-38):

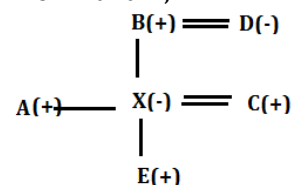
36. (e); From I,



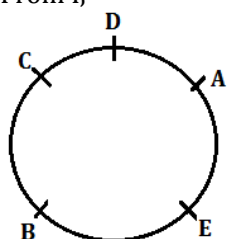
From II,



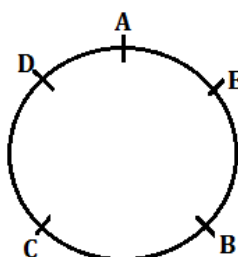
From I and II,



37. (c); From I,



From II,



38. (e); From I,

Months	
January	
March	T/

May	S
July	Q
August	P
October	R

From II,

	Case-1	Case-2
Months	Persons	Persons
January	T	
March		T
May	S	S
July	P	
August		P
October		

From I and II,

Months	Persons
January	U
March	T
	S
	Q
	P
	R

39. (b);

From the given statement as it is not mentioned in the statement that the CMC price is similar in city X but nothing is mentioned about the quality Y or the quality and prices of CMC in city X so these can't be concluded. And as it is not mentioned about the liking of people of city X for foreign products or their need of healthy products.

From the given statement as it is not mentioned in the statement that the CMC price is similar in city X but nothing is mentioned about the quality Y or the quality and prices of CMC in city X so these can't be concluded. And as it is not mentioned about the liking of people of city X for foreign products or their need of healthy products.

QUANTITATIVE APTITUDE

41. (c); Let the number of green balls be x.
Then, number of yellow balls = (12 - x)

ATQ,

$$\frac{{}^x C_1}{{}^{20} C_1} = \frac{7}{20} \Rightarrow x = 7$$

Number of yellow balls = 12 - 7 = 5

$$\text{Required probability} = \frac{{}^5 C_1}{{}^{20} C_1} \times \frac{{}^4 C_1}{{}^{19} C_1} = \frac{1}{19}$$

42. (a); $3952 \frac{2}{3} = \frac{2}{3} \pi r^3 + \pi r^2 h$ (h = height of cylinder)
 $\Rightarrow \frac{11858}{3} = \frac{2}{3} \times \frac{22}{7} \times 7 \times 7 \times 7 + \frac{22}{7} \times 7 \times 7 \times h$
 $\Rightarrow h = 21 \text{ cm.}$

43. (b); Required ratio = $\frac{6}{2 \times 3 + 2 \times 2} = \frac{6}{10} = 3 : 5$

44. (e); Required no. of classes = $\frac{9 \times 3.78 \times 1,00,000}{54000} = 63$

45. (a); Required difference = $9 \times 6000 \times 3 - 10 \times 4000 \times 2 = \text{Rs. } 82000$

46. (d); Let number of classes taken by B on Thursday and Friday each be x.

ATQ,

$$(3 \times 3 + 2x) \times 6 \times 8000 = 5,28,000$$

$$\Rightarrow x = 1$$

$$\text{Required \%} = \frac{(22 \times 8000 + 20 \times 4000)}{36 \times 6000} \times 100$$

approximately = 120%

47. (c); Honorarium paid to A = Rs. 6 × 5000 = Rs. 30,000
Honorarium paid to B (in that week) = Rs. 9 × 8000 = Rs. 72,000

$$\text{Required \%} = \frac{30000}{72000} \times 100 = 41 \frac{2}{3}\%$$

48. (d); Let the efficiency of 1 man be M unit/day and that of 1 woman be W unit/day

ATQ,

$$40 \times 12 \times M = 12 \times 48 \times W.$$

$$\Rightarrow \frac{M}{W} = \frac{6}{5}$$

Let total work = 40 × 12 × 6 = 2880 units.

In 4 days, work done by men = (40 × 6 + 30 × 6 + 20 × 6 + 10 × 6) = 600 units.

On 5th day no men will be remaining and all the remaining work will be completed by womens
Remaining work = 2280 units.

$$\text{Required time} = \frac{2280}{16 \times 5} = 28 \frac{1}{2} \text{ days.}$$

49. (b); Let the MP be Rs. 100x

$$SP = 100x \times \frac{70}{100} \times \frac{90}{100} = 63x$$

$$\text{Discount} = 100x - 63x = \text{Rs. } 925$$

$$\Rightarrow x = 25$$

$$SP = 63 \times 25 = \text{Rs. } 1575$$

$$\text{Cost price for shopkeeper} = \frac{1575}{7} \times 8 = \text{Rs. } 1800$$

50. (c); Ratio of profit share of

$$\begin{array}{ccc} \text{A} & \text{B} & \text{C} \\ 10000 \times 8 & 9000 \times 8 & 12000 \times 4 \\ 10 & : & 9 & : & 6 \end{array}$$

$$\text{Total profit in a year} = 25 \times 576 = \text{Rs. } 14,400$$

Solution (51-55)

In 2015, Average salary expense

In 2016, Average salary expense

Total expense in 2017 = 60 lakhs

$$\Rightarrow \text{Total expense in 2016 and 2017} = 50,00,000 = 50,00,000 \text{ lakhs}$$

Total salary expense in 2017

Total salary expense in 2016

$$= 12,60,000$$

Number of employees in 2015

Number of employees in 2016

In 2017, Average salary expense

Year	Average salary expense	Total expense
2015	12,500	50 lakhs
2016	12,000	50 lakhs
2017	12,500	60 lakhs

51. (e); Required ratio = $\frac{40}{12.5} = \frac{16}{5}$

52. (a); Required % = $\frac{12,500 - 12,500}{12,500} \times 100 = 0\%$

53. (d); Number of employees in 2018 = $82 \times 3 - 100 - 80 = 246 - 100 - 80 = 66$

54. (c); Let total male employees in 2016 = y
 $\Rightarrow$ Female employees in 2016 = y + 45

ATQ,

$$y + y + 45 = 105 \Rightarrow y = 30$$

Total male employees in 2016 = 30

Female employees in 2016 = 75

$$\text{Required ratio} = \frac{30}{75} = \frac{2}{5}$$

55. (a); Required difference = 12.6 lakh – 12.5 lakh
= 0.1 lakh = 10,000

56. (d); I. $x^3 = -512$
 $\Rightarrow x = -8$

II. $2y^2 + 20y + 48 = 0$
 $\Rightarrow y^2 + 10y + 24 = 0$
 $\Rightarrow y = -4 \text{ or } -6$
 $\therefore y > x$

57. (e); I. $x^2 = 25$
 $x = \pm 5$

II. $(y - 2)^2 = 3(y - 2)$
 $\Rightarrow y^2 + 4 - 4y = 3y - 6$
 $\Rightarrow y^2 - 7y + 10 = 0$
 $\Rightarrow y = 2 \text{ or } 5.$

$\therefore$ no relation can be established between x and y

58. (b); I. $2x^2 + 3x + 1 = 0$
 $2x^2 + 2x + x + 1 = 0$
 $(x + 1)(2x + 1) = 0$
 $x = -1 \text{ or } -\frac{1}{2}$

II. $2 + \frac{1}{y} + y = 0$

$\Rightarrow y^2 + 2y + 1 = 0 \Rightarrow y = -1$

$\therefore x \geq y$

59. (c); I. $(x-5)^2 = 16$
 $\Rightarrow (x-5) = -4$ or $(x-5) = 4$
 $\Rightarrow x = 1$ or $x = 9$

II. $y^2 + 8y = 84$
 $\Rightarrow y^2 + 8y - 84 = 0$
 $\Rightarrow y^2 + 14y - 6y - 84 = 0$
 $\Rightarrow y = -14$ or 6

$\therefore$ no relation can be established between x and y

60. (c); I. $2 - \frac{7}{x} + \frac{6}{x^2} = 0$
 $\Rightarrow 2x^2 - 7x + 6 = 0$
 $\Rightarrow 2x^2 - 4x - 3x + 6 = 0$
 $\Rightarrow 2x(x-2) - 3(x-2) = 0$
 $\Rightarrow (2x-3)(x-2) = 0$
 $\Rightarrow x = 3/2$ or 2

II. $\frac{15}{y^2} - \frac{22}{y} + 8 = 0$
 $\Rightarrow 8y^2 - 22y + 15 = 0$
 $\Rightarrow 8y^2 - 12y - 10y + 15 = 0$
 $\Rightarrow 4y(2y-3) - 5(2y-3) = 0$
 $\Rightarrow y = 5/4$ or $3/2$
 $\therefore x \geq y$

61. (b); Speed of boat A in still water = 25 km/hr.
Speed of boat A in current = 30 km/hr.
Speed of boat B in still water = 24 km/hr.
Required distance = 80 km

62. (d); Let the present age of A be x years and that of B be y years.
ATQ,
 $\frac{x+4}{y+6} = \frac{2}{1}$
 $\Rightarrow x + 4 = 2y + 12$
 $\Rightarrow x - 2y = 8$... (i)
C's present age = $2(x+y)$ years.
 $\frac{2(x+y)+4}{y+4} = \frac{23}{4}$
 $\Rightarrow 8x + 8y + 16 = 23y + 92$
 $\Rightarrow 8x - 15y = 76$... (ii)
From (i) and (ii)
 $y = 12$ years.

63. (b); Number of tourists applied for Canada and England from city D = $5500 \times \frac{16}{100} - 2500 \times \frac{18}{100} = 880 - 450 = 430$
Number of tourists applied for Canada from city D = $430 \times \frac{57}{86} = 285$
Required % = $\frac{285}{880} \times 100 \approx 32\%$

64. (e); Central angle of total tourists applied from city E = $34 \times 3.6 = 122.4^\circ$

65. (d); Tourists applied for Canada and England from city A = $5500 \times \frac{18}{100} - 2500 \times \frac{22}{100} = 990 - 550 = 440$
Let, Tourists applied for England from city A = y
Tourists applied for Canada from city A = $y + 120$
ATQ,
 $y + y + 120 = 440$
 $2y = 320$
 $y = 160$
Tourists applied for Canada from city A = $160 + 120 = 280$

66. (c); Number of tourists applied for Canada and England from city D = $5500 \times \frac{16}{100} - 2500 \times \frac{18}{100} = 880 - 450 = 430$

67. (a); Number of tourists applied for Canada and England from city D = $5500 \times \frac{34}{100} - 2500 \times \frac{22}{100} = 1870 - 550 = 1320$
Number of tourists applied for Canada from city D = $1320 - 430 = 890$

68. (a); Let the amount invested in scheme A be $2p$ and in scheme B be $3p$.
Total amount invested from both the schemes = $5p$
Interest in 2 years = $10 + 10 + 10 + 10 = 40$
 $\frac{40}{5p} = \frac{21}{100}$
 $7p \times \frac{21}{100} = \frac{40 \times 100}{100} \Rightarrow X = 14\%$

69. (d); Remaining amount = $60,000 - (12,000 + X) = 48,000 - X$
ATQ,
 $(48,000 - X) \times \left(1 - \frac{1}{7} - \frac{1}{6}\right) = 29,000$
 $\Rightarrow (48,000 - X) \times \frac{29}{42} = 29,000$
 $\Rightarrow X = \text{Rs. } 6,000$

70. (d); From I
Sum of present age of all the members = $28 \times 3 - 3 \times 2 = 78$ yr
Sum of age of Father and Mother = $(30+6) \times 2 = 72$ years
Age of daughter = $78 - 72 = 6$ years
From II
Age of daughter can be easily found
Either statement I or statement II by itself is sufficient to answer the question.

71. (c); From (i)
Let investment of Bhavya be Rs x
Then investment of Veer = Rs (9000-x)
From (ii)
Ratio of profit shares
Veer : Bhavya
(9000-x) × 12 : x × 12 + (x+2000) × 12
(9000-x) : (2x+2000)

ATQ

$$\frac{9000-x}{2x+2000} = \frac{2550}{3400}$$

Here we can find value of x
So, both the statements taken together are necessary to answer the questions, but neither of the statements alone is sufficient to answer the question.

72. (b); From (i)
Let time taken by person from A to B is x hr
Then from B to A is $\frac{1}{2}x$
From (ii)
Let speed while coming = y km/hr
And while going from B to A = $\frac{1}{2}y$ km/hr

ATQ

$$\frac{\frac{100}{y}}{\frac{100}{\frac{1}{2}y}} = \frac{5}{6}$$

Here $y = 33\frac{1}{3}$ km

We can find the required speed of that person by statement

73. (d); P = Principal, Rate

From I →

$$\frac{PX^2}{100^2} = 250$$

$$\Rightarrow X^2 = \frac{250 \times 100 \times 100}{25000}$$

From II →

$$\frac{P \times X \times T}{100} = P \Rightarrow X = 10\%$$

Either statement I or statement II by itself is sufficient to answer the question.

74. (c); Let speed of A and B be 'x' and 'y' respectively. As A crosses B so, $x > y$

From I →

$$y = 2(x - y) \Rightarrow x = 1.5y$$

From II →

In 2 seconds, B will travel 2y more

$$\text{Hence } 16 = \frac{30+2y}{x-y} \Rightarrow 16x - 30 = 18y$$

From I and II together →

$$\Rightarrow 16x - 30 = 18y$$

Becomes

$$24y - 30 = 18y$$

$$y = 5 \text{ m/sec and } x = 7.5 \text{ m/sec}$$

$$\text{Time in which A crosses B} = \frac{30}{2.5} = 12 \text{ seconds}$$

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

75. (d); Required ratio = $\frac{96+72+108}{(72-24)+(80-32)} = \frac{276}{48+48} = \frac{276}{96} = \frac{23}{8}$

76. (a); Total number of boys who play Cricket and Football = 44 + 32 = 76

$$\text{Total students who play Football and Tennis} = 80 + 108 = 188$$

$$\text{Required difference} = 188 - 76 = 112$$

77. (c); Total number of boys who play Volleyball and Tennis = 24 + 48 = 72

$$\text{Total number of girls who play Volleyball and Tennis} = 108 - 48 = 48 + 60 = 108$$

$$100 = 66\frac{2}{3}\%$$

78. (b); Total number of boys who play Football = 32
Total number of boys who qualified for nationals = 80 - 32 = 48

$$\text{Total number of girls who play Football} = 80 - 32 = 48$$

$$\text{Total number of girls who play qualified for nationals} = 108 - 48 = 60$$

$$100 = 60\%$$

$$\text{Total number of boys who were disqualified for nationals} = 80 - 48 = 32$$

$$100 = 60\%$$

79. (b); Total number of girls who play Volleyball = 108 - 48 = 60

$$\text{Total number of girls who play Football} = 80 - 32 = 48$$

$$\text{Total number of girls who play Tennis} = 108 - 48 = 60$$

$$\text{Required average} = \frac{1}{3}(48 + 48 + 60) = \frac{156}{3} = 52$$

80. (b); ATQ

$$\frac{(120-X)}{Y} = \frac{20}{1}$$

$$120 - X = 20Y \quad \dots (i)$$

And

$$\frac{(120-2X)}{Y} = \frac{16}{1}$$

$$120 - 2X = 16Y \quad \dots (ii)$$

From (i) and (ii)

$$X = 20 \text{ \& } Y = 5$$

$$X + Y = 25$$

- 81. (d);** The appropriate answer here is option (d). For the answer, refer to paragraph 1 where it is mentioned Ayushman Bharat is the essential first step on the road to universal health coverage, although it has been launched by the NDA government quite late in its term, possibly with an eye on the 2019 general election. Here with the term 'possibly', we are referring to the author's view.
- 82. (b);** Option (b) is the most suitable answer. Refer to first paragraph where it is given without adequate budgetary commitments, the implications of pooling the financial risk for such a large segment of the population through insurers or state-run trusts or societies make the outcomes uncertain. The outcome of the Ayushman Bharat Scheme. He is referring to the uncertain outcomes is about the Ayushman Bharat Scheme.
- 83. (c);** Option (c) is the last choice. For the answer, refer to paragraph 2 where it is given that the government should have been persuaded to bring the hospital sector under the regulatory framework (Registration and Accreditation) which dates back to 2010. The government provides for standardization of procedures. Refer to the passage given in the passage.
- 84. (d);** Option (d) is the only correct choice. For the answer, refer to paragraph 3 where it is given that Minister Narendra Modi announced the government's ambitious healthcare scheme Ayushman Bharat on Sunday, five states remained unconvinced. Telangana, Odisha, Delhi, Kerala and Punjab have said they will not implement the programme till their concerns are addressed since they have better health assurance schemes.
- 85. (d);** Option (d) is the only statement which is definitely false among all the given statements. This statement can be corrected as follows: "The main focus of government under Ayushman Bharat Scheme is not only on affordable healthcare but also on preventive healthcare."
- 86. (d);** Censured means express severe disapproval of (someone or something), especially in a formal statement.
Condemned means expressed complete disapproval of; censured
- Approved-officially agree to or accept as satisfactory.
Acclaimed-publicly praised; celebrated.
Endorsed- declared one's public approval or support of.
Sanctioned- authorized.
- 87. (c);** Avail means use or take advantage of (an opportunity or available resource).
Utilize means the same.
Bruise- injury
Afflict-Trouble , bother
Grieve-Lament, Mourn
Mutilate-Disfigure
- 88. (a);** Apprehension means anxiety or fear that something bad or unpleasant will happen.
Anticipation means a feeling of worry, nervousness, something with an uncertain outcome.
Assertion means a statement or claim that is regarded as being true, or self-evidently true.
Certainty means a firmly held belief or opinion.
Conviction means absolute certainty or conviction that one is in the right case.
Verity means a principle or belief, especially one of great importance.
- 89. (e);** Envisage means to contemplate or conceive of as a probable or desirable future event.
Contemplate- look thoughtfully for a long time at.
Foresee-be aware of beforehand; predict.
- 90. (e);** Empanelled means enlisted or enrolled.
Ousted means expelled from a position or place. Hence it is the only opposite of the given word.
Enlisted means engaged.
Enrolled means recruit to perform a service.
Allocated means distributed for a particular purpose.
- 91. (b);** The word "broad" in the given sentence should be replaced by "board" to form a contextually meaningful sentence. "Board" means a group of people constituted as the decision-making body of an organization; while "broad" means having a distance larger than usual from side to side; wide. All the other highlighted words are

grammatically correct and contextually meaningful. Hence, the option (b) is the most suitable answer choice.

Supersede means take the place of (a person or thing previously in authority or use); supplant.

Exposure means the state of having no protection from something harmful.

92. (d); The word “broke” should be replaced by “brake” as the phrase “acting as...” indicates that the next word should be a noun. However “broke” is a verb which should be replaced by the noun “brake” which means an interruption of continuity or uniformity. All the other highlighted words are grammatically correct and contextually meaningful. Hence, the option (d) is the most suitable answer choice.

Derailed means obstruct (a process) by diverting it from its intended course.

Assault means mak

93. (a); The verb “miring” means to get stuck in its present participle form. The word “mired” is in the past tense. The word “mired” is the form of “miring” required in the sentence. All the other highlighted words are grammatically correct and contextually meaningful. Hence, the option (a) is the most suitable answer choice. Mired means involved in a difficult situation. Hampered means hindered or impeded movement or progress. Lacking enthusiasm means not being enthusiastic or carelessly lazy. Enforcement means the observance of or compliance with a law or obligation.

94. (d); The word “accommodation” is misspelt in the given sentence as “accommodation”. All the other words have been spelt correctly and are in appropriate grammatical and contextual syntax. Hence, the option (d) is the most viable answer choice.

Anticipate means regard as probable; expect or predict.

Accompanied means be present or occur at the same time as (something else).

Neutral means having no strongly marked or positive characteristics or features.

Accommodation means the process of adapting or adjusting to someone or something.

95. (e); All the highlighted words of the given sentence are grammatically correct, contextually meaningful and correctly spelt. Since all the

words are correct, the option (e) becomes the most feasible answer choice.

Inclusion means the action or state of including or of being included within a group or structure.

Robust means strong and healthy; vigorous.

Propel means drive or push something forwards.

96. (c); Equivocate [verb] means ‘to lie, attempt to conceal the truth’;

Deviate [verb] means ‘turn away from (a principle, norm); depart; diverge’;

Chortle [verb] means ‘chuckle with delight’;

Water cannon and tear-gas shells are something that are fired or shot to scatter a violent mob.

Among the given options, the option (c) ‘fired’ is the most appropriate choice and is the correct answer.

‘Police fired water cannon and...’

97. (b); Flay [verb] means ‘strip the skin off (a corpse or

someone) to get rid of someone especially

someone who is slow or move at a slow

Water cannon and tear-gas shells are something that are fired or shot to scatter a violent mob.

The crowd of the farmers was violent, and this is the reason why the Police tried to break it up. The sentence ‘who tried to break it up’ indicates to enter...’ So, it can be

the objective of the Police to use water cannon and tear-gas shells was to disperse the violent congregation of

Among the given options, the option (b) is the most appropriate choice and is the correct answer.

‘...and tear-gas shells to disperse thousands of farmers...’

98. (c); Belated [adj.] means ‘delayed’;

Erudite [adj.] means ‘learned; scholarly’;

The blank will be filled by an adjective which would qualify the noun ‘negotiations’ which were failed and were held between BKU leaders and Central Ministers. What sort of adjective should qualify ‘negotiations’ under the given circumstances.

Among the given options, ‘restless’, a synonym of hectic, is the most appropriate word to fill the blank and is the correct answer.

Hence, the option (c) is the correct answer.

‘, even as hectic/restless negotiations between BKU leaders and Central Ministers failed’

109. (d); The error is in part (d) of the sentence. Use 'is' in place of 'are' as the subject of the sentence is 'the idea' which is singular.

110. (b); 'Enough' will be used after 'kind' as when enough is used as adverb of quantity then enough is always used after the adjective or adverb.

111. (b); The option 'constructively, better' fits the sentence most appropriately where 'constructively' means promoting further development or advancement.

Pro-actively means by taking action to control a situation rather than just responding to it after it has happened.

Objectively means in a way that is not influenced by personal feelings or opinions.

112. (a); Implacable [adj.] means 'unable to be appeased or placated';

Incessant [adj.] means 'continuous (as unpleasant) coming or interruption';

Capsized [adj.] means 'overturned in the water';

Soliciting [participle] means 'asking for or try to obtain something from someone';

Words like 'soliciting' and 'solicit' can fill the second blank.

The preposition 'in' in the phrase 'in military' which follow the blank doesn't gel with these words.

So, the options (c) and (d) are ruled-out.

The options (b) and (a) are ruled-out.

Hence, the correct answer is option (a).

113. (a); The option 'limitation' fits the sentence appropriately where 'conceal' means prevent (something) from being known.

Conceal means not allow to be seen; hide.

Drawbacks means a feature that renders something less acceptable; a disadvantage or problem.

Acknowledge means accept or admit the existence or truth of.

114. (c); 'raise, adequate' fits the sentence appropriately where adequate means satisfactory or acceptable in quality or quantity.

Durable means able to withstand wear, pressure, or damage; hard-wearing.

Stimulate means raise levels of physiological or nervous activity in (the body or any biological system).

Adequate means satisfactory or acceptable in quality or quantity.

115. (b); 'pretext, protecting' fits the sentence appropriately as 'pretext' means a reason given in justification of a course of action that is not the real reason.

Garb means clothing, especially of a distinctive or special kind.

External form, appearance, or presentation, typically concealing the something.

Reason given in justification of a action that is not the real reason.

116. (e); The correct sequence of the sentences to form a coherent paragraph is DECBA. Hence, the option (e) is the most suitable answer choice.

117. (c); The correct sequence of the sentences to form a coherent paragraph is CABED. Hence, the option (c) is the most suitable answer choice.

118. (b); The correct sequence of the sentences to form a coherent paragraph is FDACBE. Hence, the option (b) is the most suitable answer choice.

119. (d); The correct sequence of the paragraph after the rearrangement of sentences is DAEBEC.

120. (b); The correct sequence of the sentence after the rearranging them to form a coherent paragraph is EACDB.