

IBPS RRB PO Mains 2019

REASONING ABILITY

Directions (1-5): Study the following information to answer the questions given below:

Seven persons were born in seven different years. Their ages are calculated with respect to 2019. None of them was born before 1965. They belong to different professions such as Manager, HR, Artist, Doctor, Teacher, Engineer, and Pilot but not necessarily in the same order.

Note: All the persons were born on the same date and same month.

Nisha was 38 years old. No one was born between Nisha and the one who is Pilot. Three persons were born between the one who is Pilot and Aditi, who is the oldest among all and born before 1970 but in the even-numbered year. No one was born between Aditi and Dheeraj. More than one person was born between Dheeraj and Kamal. Kamal was born just before. There is 4 years difference between Dheeraj and Kamal. The difference between the ages of Kamal and Pranav is the same as between Nisha and Pooja. Pranav was born before Pooja but after Dheeraj. Pranav is older than Pranav. Pranav's difference between the ages of Pooja and Pranav is more than 20 years. The one who is HR was born just before HR. Pooja does not have any difference between the ones who are born before Pooja. No one was born between Pilot and Pooja.

- How many persons were born between the one who was Artist and Doctor?
(a) One (b) None (c) Two (d) Five (e) None of these
- In which year Kamal was born?
(a) 1976 (b) 1978 (c) 1981 (d) 1987 (e) None of these
- Which of the following combination is true?
(a) Nisha-41-HR (b) Dheeraj-41-Manager (c) Aditi-51-Doctor (d) Swati-32-Pilot (e) None is true
- Four of the following five are alike in a certain way and hence they form a group. Which one of the following does not belong to that group?
(a) Aditi-Artist (b) Kamal-Manager (c) Nisha-HR (d) Swati-Pilot (e) Pooja-Engineer

5. The number of persons were born between Kamal and Pranav is same as the number of persons were born between Swati and ___?

(a) Pooja (b) Dheeraj (c) Aditi
(d) Nisha (e) None of these

6. **Statement I-** The Indian Army plans to recruit women in combat roles, especially with regard to the operations in Jammu & Kashmir, Army Chief General Bipin Rawat said at the Passing Out Parade at the Indian Military Academy (IMA).

Statement II- Many a time jawans in Kashmir feel hesitant about dealing with women when they are in

the situation in Kashmir has been flaring up for worse since last four days alone, the army has killed militants.

Which of the following may be cause/effect among the above?

- (a) Statement I is cause and Statement II is effect
(b) Statement II is cause and Statement I is effect
(c) Both are independent causes
(d) Both are effects of independent causes
(e) Statement I is cause and Statement II is effect

cause and Statement I is it's effect
is effect of independent cause.

(d) Statement II is cause and Statement I is effect of independent cause.

(e) Statement I is cause and Statement II is effect of independent cause.

7. **Statement:** No one in the Royal Family wants to be king or queen by their choice, Prince Harry has told a US magazine, adding that "we will carry out our duties at the right time". "Is there any one of the Royal Family who wants to be king or queen? I don't think so," he told Newsweek.

Which of the following is not in line with the above statement?

- (I) He said the royals were doing their duties "for the greater good of the people".
(II) Harry, who recently said he had received counselling to cope with the death of his mother in a car crash in Paris, said: "My mother had just died, and I had to walk a long way behind her coffin, surrounded by thousands of people watching me while millions more did on television."

(III) He also paid tribute to his "remarkable" grandmother for letting the younger royals do things their own way.

- (a) Only (I)
- (b) Only (II)
- (c) Only (III)
- (d) Both (II) and (III)
- (e) None of these

Direction (8-10): Study the following information carefully and answer the questions given below:

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.

8. **Statements:** Only a few Pizza are Burger. Only a few Burger are Maggie. All Maggie are Maggie.

Conclusions:

I. Some Maggie are not Burger.

II. Some Pizza are not Past.

III. Only a few Pizza are Ma

(a) If only conclusion I and

(b) If only conclusion II fol

(c) If either conclusion II o

(d) None follows

(e) None of these

9. **Statements:** Only a few Current are Saving. All Account are not Account.

Conclusions:

I. Some Account can be FD.

II. Some Saving are not FD.

III. All Bank being Account is a possibility.

(a) If only conclusion I and II follows

(b) If only conclusion II and III follows

(c) If only conclusion I follows

(d) All I, II and III follow

(e) None Follow

10. **Statements:** Only Vertical is Circle. Some Vertical are not Square. All Square are Triangle.

Conclusions:

I. Some Circle can be Triangle.

II. All Square being Vertical is a possibility.

III. Only a few Vertical is Triangle.

(a) If only conclusion I and II follows

(b) Only II

(c) If only conclusion I follows

(d) All I, II and III follow

(e) None Follow

Directions (11-15): Study the following information carefully and answer the questions given below:

Eight persons are sitting in a straight line equidistant from each other. Some of them are facing north and some of them are facing south. Not more than two persons having same direction are sitting adjacent to each other. Three persons are sitting to the left of U. Only one person sits between Z and W and both of them faces in the same direction. Z does not sit at the extreme end of the line. Y who is not an immediate neighbor of S sits second to the right of X who sits at one of the extreme ends of the line. V sits fifth to the left of T who faces in the south direction. S sits immediate right of U and both faces in opposite directions to each other. Persons sitting at the extreme ends are facing in the same direction. Y faces north direction.

11. How many persons are facing in the south direction?

- (a) Four
- (b) Five
- (c) Three
- (d) Two
- (e) Six

12. Who sits to the left of S?

- (a) V
- (b) X
- (c) X
- (d) None of these

13. Four of the five are alike in a certain way and one is different. Which of the following does not belong to the group?

- (a) S
- (b) U
- (c) Z
- (d) W
- (e) X

14. How many persons sit between Z and Y?

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

15. Which of the following is true?

- (a) No one sits to the left of W
- (b) U sits to the right of T.
- (c) V faces north direction
- (d) Both (b) and (c) are true
- (e) All are true

Directions (16-20): Each of the questions below consists of a question and two statements numbered I and II given below it. You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and give answer.

- (a) if the data in statement I alone are sufficient to answer the question, while the data in statement II alone are not sufficient to answer the question.
- (b) if the data in statement II alone are sufficient to answer the question, while the data in statement I alone are not sufficient to answer the question.
- (c) if the data either in statement I alone or in statement II alone are sufficient to answer the question.
- (d) if the data given 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.

16. Five members i.e. P, Q, R, S and T are in a family, then who is the husband of R?

Statement I: R is sister in law of S who is the child of P.

Statement II: R is the daughter in law of Q who is the mother of S.

17. What is the code for "cow"?

Statement I: "big cow rat" is coded as "mn vg dc" and "rat dew grass" is coded as "vg bh sx"

Statement II: "big same use" is coded as "mn we qs" and "rat cow use" is coded as "we vg dc"

18. Six persons are of different heights. Who is 2nd shortest person?

Statement I: Anshul is taller than Ankita and shorter than Anamika. Only one person is taller than Akash.

Statement II: Ankita is shorter than Akash and taller than Aditya. Ankit is not shortest person.

19. Five persons i.e. F, P, R, S and T are living on different floors of five floored building. Who is living on the topmost floor?

Statement I: There are two persons living between P and F who is immediate above T.

Statement II: Only one person is living between S and F. There are three floors between P and T who is not in topmost floor.

20. Five persons i.e. A, B, C, D and E are sitting in a row facing North. Who sits in the middle?

Statement I: D sits 3rd to the left of E who is sitting at an extreme end. Two persons are sitting between A and B.

Statement II: B sits immediately to the right of D who is sitting to the left of A. C sits immediate right of B.

Directions (21-23): In each of the questions, relationships between some elements are shown in the statements. These statements are followed by conclusions numbered I and II. Read the statements and give the answer.

- (a) If only conclusion I follows.
(b) If only conclusion II follows.
(c) If either conclusion I or II follows.
(d) If neither conclusion I nor II follows.
(e) If both conclusions I and II follow.

21. **Statements:** $A \leq B > D = C$, $C > E \leq F$

Conclusion: I. $A > C$ II. $E < B$

22. **Statements:** $P > Q > R = S$, $S \geq T \leq U \geq V$

Conclusions: I. $Q > T$ II. $S \leq V$

23. **Statements:** $B > C > D < E = F$, $H \leq E > G = N$

Conclusions: I. $F < N$ II. $N > D$

Directions (24-28): Study the information carefully and answer the questions given below.

A certain number of persons are sitting in a row facing north. M sits fourth to the left of O. Only two persons sit between M and Q. R sits second to the left of Q. S sits fourth to the right of O. Not more than five persons sit between P and Q. P sits to the right of S. Only three persons sit to the left of R.

24. Which of the following statement is true?

- (a) M sits at an extreme end
(b) Only one person sits between M and R
(c) All are true
(d) Ten persons sits between M and S
(e) None is true

25. How many persons are sitting between O and Q?

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

26. If P sits at the end of the row, then how many persons are sitting to the left of P?

- (a) Four (b) Twelve (c) Thirteen
(d) More than thirteen

27. What is the position of S in the row?

- (a) Immediate left of P
(b) Sixth from the left of Q
(c) Eighth from the left of M
(d) None of these
(e) Somewhere between R and S

28. If there are five persons sitting between S and O, then how many persons are sitting to the left of L?

- (a) Ten
(b) Nine
(c) Eight
(d) Cannot be determined
(e) More than ten

29. India and the UAE have discussed measures to deepen cooperation in a range of areas including defence, security, terrorism and trade as the two countries held the second round of their strategic dialogue in Abu Dhabi.

Which among the following is not-in-line with given statement?

- (I) The Indian delegation at the talks held yesterday was led by Minister of State for External Affairs M J Akbar while the UAE side was headed by its Minister of State for Foreign Affairs Anwar Gargash.
(II) India ships wheat to Afghanistan via Chabahar. India on Sunday began shipment of wheat to Afghanistan through the Iranian port of Chabahar.

(III) The UAE has raised its investment profile in India, and cooperation has increased on security issues, the statement said.

- (a) Only I
- (b) Both II and III
- (c) Both I and III
- (d) Only II
- (e) None of these

30. Modi government to reframe social welfare schemes for OBCs. In the run-up to the high stakes elections in Gujarat and Himachal Pradesh, the Narendra Modi-led government has moved to reframe social welfare schemes for other backward classes (OBCs). Which among the following can be hypothesized from the given statement?

- (I)** The targeted schemes promise quality residential accommodation and scholarships to OBC students.
 - (II)** This reframe of social welfare schemes for OBCs by the Modi government is aimed to target high stakes elections in Gujarat and Himachal Pradesh.
 - (III)** The ministry has launched schemes for construction of hostels for efficient, economical and
- (a) Only (I)
 - (b) Both (III) and (I)
 - (c) Only (II)
 - (d) Both (II) and (III)
 - (e) None of these

Directions (31-33): Study the following information carefully and answer the questions given below:
A@B (6)- A is 10m in north of B
A\$B (10)- A is 14m in south of B
A%B (12)- A is 10m in east of B
A&B (15)- A is 13m in west of B
P%Q(16), R&S(12), T&U(20), U\$S(15), P@T(10), W\$R(17)

- 31.** What is the shortest distance between point P and point U?
 (a) $2\sqrt{130}$ (b) 520m (c) 130m
 (d) 260m (e) None of these
- 32.** If M is the mid point of the line segment TU, then determine the distance between the point T and point M?
 (a) 9m (b) 10m (c) 8m
 (d) None of these (e) 7m
- 33.** What is the shortest distance between the point U and point W?
 (a) 85m (b) 120m (c) None of these
 (d) $\sqrt{104}$ m (e) $\sqrt{130}$ m

Direction (34-38): Study the following information carefully and answer the questions given below:

Eight boxes AC, BD, EG, FH, IK, JL, MO and NP have different brands toffee i.e. Poppins, Melody, Kismi bar, Gems, Hajmola, Boomer, Center fresh and Coffee bite places one above another. All are not necessarily in same order. Box FH is placed above the box which has Center fresh. There are three boxes are between the boxes have Melody and Hajmola. There are only three boxes are above the box MO. There is only one box is between MO and FH. Box AC is immediate below the box which has Melody. Box BD places just above box which has Melody and just below the box has Gems. Box FH neither has Gems nor has Hajmola. Box EG places just above the box which has Poppins and just below the box which has Coffee bite. There is one box between box IK which has Boomer and box JL. Box MO doesn't have Center fresh.

- 34.** Which among the following box places just above the box which has Kismi bar?
 (a) AC (b) BD (c) EG
 (d) None of these
- 35.** Which among the following toffee is in box NP?
 (a) Melody (b) Hajmola (c) Kismi bar
 (d) None of these
- 36.** How many boxes are placed between box AC and the box which has Hajmola?
 (a) One (b) Two (c) Three
 (d) More than three (e) None
- 37.** Which among the following is not false?
 (a) AC-BD (b) BD-Gems (c) EG-Melody
 (d) None is true
- 38.** Which among the following five are alike in certain way and find the one which does not belong to that group?
 (a) IK-Boomer (b) EG-Coffee bite
 (c) NP-Center fresh (d) BD-Gems
 (e) MO-Melody

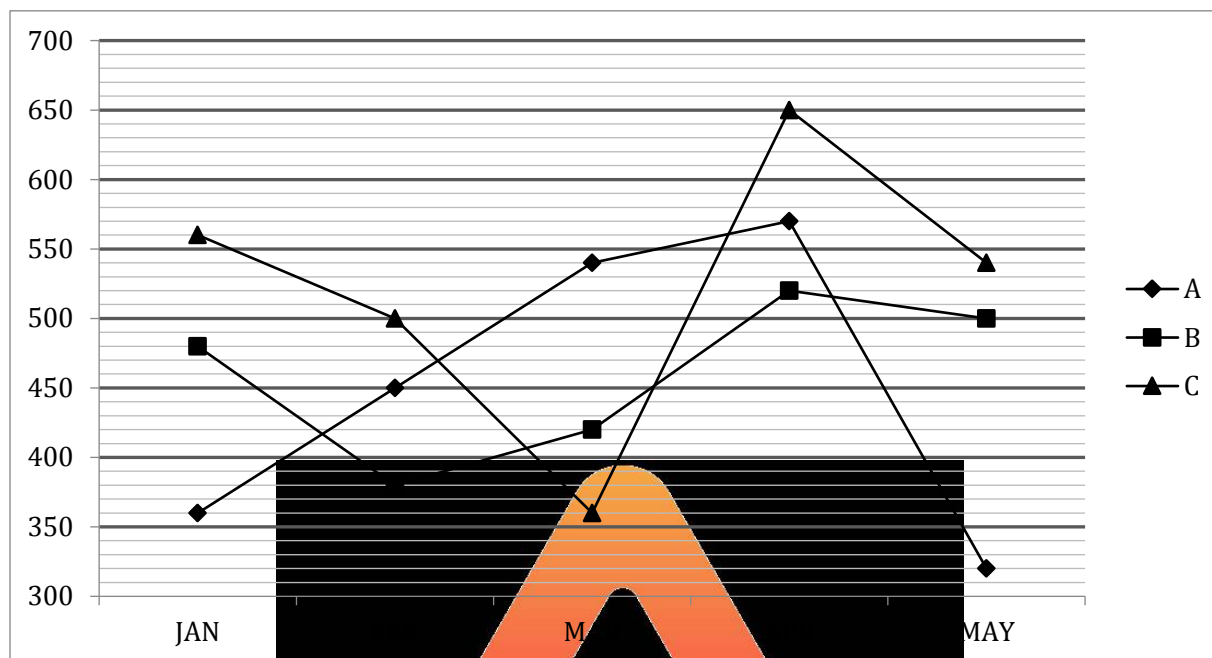
Directions (39-40): Study the following information carefully and answer the questions given below:

In a certain code language
 'exams good for growth' is coded as 'jam, dam, mam, ram'
 'bank exams are difficult' is coded as 'pam, jam, vam, bam'
 'bank growth not easy' is coded as 'pam, ram, lam, tam'
 'easy for difficult preferred' is coded as 'tam, mam, bam, sam'

- 39.** What is the code for the word 'exams' in the given code language?
 (a) jam (b) tam (c) lam
 (d) ram (e) None of these
- 40.** 'ram' is the code for which of the following words?
 (a) bank (b) exams (c) easy
 (d) difficult (e) None of these

QUANTITATIVE APTITUDE

Directions (41-45): Following Line Graph given provides the details of total number of rides taken by 3 different drivers in 5 different months and the Table DI given below provides the details of percentage of total female rides taken by all the drivers in 5 different months and answer the questions accordingly.



Month/ Driver	Male ride taken by Driver A	Female ride taken by Driver B	Female ride taken by Driver C
JAN	40%	25%	30%
FEB	36%	25%	44%
MAR	40%	25%	40%
APR	45%	48%	30%
MAY	32%	48%	60%

41. Total number of male rides taken by all the three drivers in January and March together is approximately what percentage more than the total female rides taken by driver A in April and May together?
 (a) 40% (b) 36% (c) 45%
 (d) 30% (e) 50%
42. Find the total number of male rides taken by all the three drivers in March together?
 (a) 652 (b) 724 (c) 696
 (d) 669 (e) 628
43. Find the difference between total no. of female ride taken by all the 3 drivers in January to the total no. of male rides taken by all the 3 drivers in March?
 (a) 327 (b) 294 (c) 268
 (d) 214 (e) 237
44. Find the respective ratio of total no. of female rides taken by driver A in April and May together to the total no. of male ride taken by Driver B in January and March together?
45. Find the total number of female rides taken by Driver B in all the five months together?
 (a) 848 (b) 956 (c) 984
 (d) 918 (e) 884
46. A basket contains 8 Blue, 5 Red and 6 Green balls. 3 Balls are drawn from the basket, then find the probability of getting all 3 balls drawn are of different colors?
 (a) $\frac{80}{323}$ (b) $\frac{883}{969}$ (c) $\frac{73}{223}$
 (d) $\frac{86}{969}$ (e) $\frac{67}{173}$
47. Suresh was married 14 yrs ago and his present age is $\frac{3}{2}$ times of the age at the time of his marriage. If his son's age is $\frac{1}{3}$ rd of his present age, then find the age of his son.
 (a) 16 yrs (b) 18 yrs (c) 14 yrs
 (d) 12 yrs (e) 20 yrs

48. A Square and an equilateral triangle have the same area. If the perimeter of the square is 88 cm, then find the area of the equilateral triangle is?

- (a) 441 cm^2 (b) 400 cm^2 (c) 484 cm^2
(d) 324 cm^2 (e) 576 cm^2

49. A, B and C together can complete a work in 8 days and A alone can complete the same work in 24 days. If A and B started the work and after 2 days C also joined them, then remaining work was completed by A, B and C together in $6\frac{4}{5}$ days. Find in how many days B alone can complete the whole work?

- (a) 28 days (b) 36 days (c) 24 days
(d) 32 days (e) 30 days

50. In a mixture of milk and water, the proportion of milk by weight is 60%. If from the 80 gm mixture, 20 gm of mixture is taken out and 6 gm of pure water is added to the mixture then find the ratio of milk and water in the new mixture.

- (a) 5 : 6 (b) 6 : 5 (c) 4 : 3
(d) 3 : 2 (e) 7 : 6

51. Three persons A, B and C are investing in the ratio of 3 : 4 : 5. After 12 months, B increases his investment by 25%. If after 12 months, the difference of A and C is Rs. 1,350 then find the share of A after 12 months.

- (a) Rs. 11,500 (b) Rs. 12,250 (c) Rs. 12,500
(d) Rs. 11,250 (e) Rs. 12,000

Directions (52-56): The following table shows the quantity of waste (Dry and Wet) produced on different days. The capacity of the truck is 180 kg and for each day, the waste is picked up by the truck.

Day	Quantity of wet waste	Ratio of wet waste to dry waste	(wet > dry)
Monday	-	5 : 4	20 kg
Tuesday	110 kg	-	22 kg
Wednesday	99 kg	9 : 7	-
Thursday	84 kg	7 : y	24 kg
Friday	-	12 : 7	40 kg

Note:- If the waste produce in a day is greater than the capacity of the truck, then the extra amount of waste will be picked on next day.

52. If on Wednesday the truck picks only 80% of the waste of his capacity, then find the difference between the quantity picked of wet waste and dry waste on the same day? (priority given to wet waste)

- (a) 64 kg (b) 48 kg (c) 62 kg
(d) 54 kg (e) 42 kg

53. What is the value of 'y'?

- (a) 4 (b) 5 (c) 6
(d) 3 (e) 8

54. Find the ratio of total dry waste produced on Monday, Tuesday and Friday together to wet waste produced on Wednesday and Thursday together?

- (a) 194 : 218 (b) 185 : 212 (c) 183 : 224
(d) 212 : 185 (e) 224 : 183

55. What is the amount of waste left by the end of the Wednesday?

- (a) 18 kg (b) 16 kg (c) 14 kg
(d) 20 kg (e) 12 kg

56. Find the total quantity of dry waste on all the five days together?

- (a) 381 kg (b) 413 kg (c) 361 kg
(d) 337 kg (e) 321 kg

Directions (57-60): Given questions are based on a missing series pattern and following that pattern find the relation between P, Q and R.

57. 300, 324, 384, 504, P, 1050

450, 474, Q, 654, 864, 1200

604, R, 850

(a) P < Q < R (b) P < Q > R (c) P = Q > R

(d) P < Q < R (e) P < Q > R

58. 27, 7200, 1440, 8640

2100, 5600, 1120, 6720

1500, R, 800, 4800

(a) P < Q < R (b) P < Q > R (c) P = Q > R

(d) P < Q < R (e) P < Q > R

59. 35, 70, 4200, 25200

16800, 100800

4800, 28800

(a) P < Q < R (b) P < Q > R (c) P = Q > R

(d) P < Q < R (e) P < Q > R

60. 7, 14, 71, 141, Q, 5754

199, 7199

11, 23, 71, 287, R, 8639

(a) P < Q < R (b) P < Q > R (c) P = Q > R

(d) P < Q < R (e) P < Q > R

Directions (61-64): In each of the following questions, two equations (I) and (II) are given. Solve the equations and mark the correct option:

(a) if $x > y$

(b) if $x \geq y$

(c) if $x < y$

(d) if $x \leq y$

(e) if $x = y$ or no relation can be established between x and y.

61. I. $2x^2 + 11x + 12 = 0$

II. $8y^2 - 22y - 21 = 0$

62. I. $x^2 - 17x - 60 = 0$

II. $y^2 + 42y + 185 = 0$

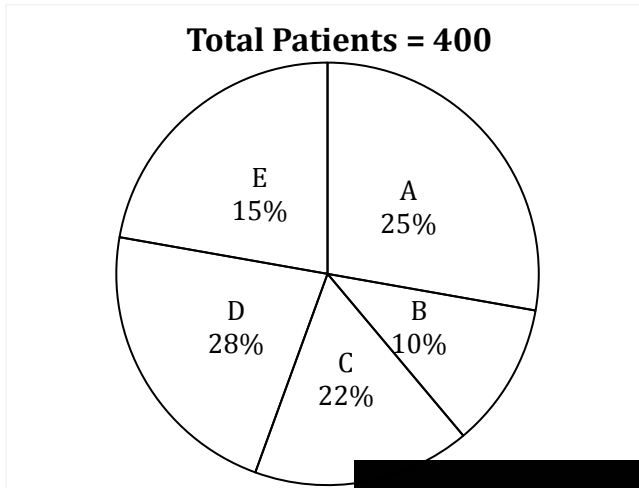
63. I. $x^2 + 41x + 420 = 0$

II. $6y^2 - 11y - 10 = 0$

64. I. $x^2 - 8x - 273 = 0$

II. $y^2 + 6y - 432 = 0$

Directions (65-69): Given pie chart provides the details of total number of patients visited to different doctors for their problem and the table provides the details of fees of different doctors. Read the instruction carefully and answer the question accordingly.



Note:-

A and B are Junior Doctor
C and D are Senior Doctor
E is Dean

Doctor's Profile	Fees (in Rs)
Junior Doctor	1000
Senior Doctor	1500
Dean	2000

65. What is the difference between the total fees received by Doctor C and the total fees received by Doctor E?
(a) Rs 40800 (b) Rs 43200 (c) Rs 46400 (d) Rs 36800 (e) Rs 34200
66. Find the respective ratio of total fees received by Doctor A from all its patient to the total fees received by Doctor E from all its patients
(a) 27 : 31 (b) 30 : 23 (c) 23 : 30 (d) 31 : 27 (e) 29 : 31
67. Total fees received by junior doctor B is what percentage more/less than the total fees received by Doctor E?
(a) $69\frac{1}{3}\%$ (b) $60\frac{2}{3}\%$ (c) 72% (d) $68\frac{2}{3}\%$ (e) 64%
68. If the Doctor E's fees is increased by 15% from the current fees, then find the total fees received by Doctor E when the fees is increased? (in Rs)
(a) 1,72,500 (b) 1,78,500 (c) 2,12,000 (d) 1,92,500 (e) 2,04,000

69. Find the average of total fees received by both Junior Doctors and Senior Doctors together?
(a) Rs 1,28,500 (b) Rs 1,25,800 (c) Rs 1,30,250 (d) Rs 1,22,350 (e) Rs 1,35,600

Directions (70-74): Study the given passage carefully and answer the following questions

A train is travelling from station A to E. At station A, 80 person board in the ratio of male to female of 9 : 7. At station B, 15 men got down and 5 women boarded the train. At station C, half of the women got down and the same number of men boarded the train. At station D, x number of male got down and now the ratio of male to female in train is 7 : 4

70. If 50% of male who were travelling from B to C do not have a valid ticket and 60% of the female travelling from B to C do not have a valid ticket, then find the number of passengers who are travelling from B to C with invalid ticket ?
(a) 43 (b) 39 (c) 47 (d) 51

71. Find the percentage of passengers travelling from station B to C who do not have a valid ticket, if the number of passengers travelling from station D to E is 10% more than the number of passengers travelling from station B to C?
(a) 21% (b) 25% (c) 18% (d) 15% (e) 24%

72. Find the difference between the passengers travelling from station A to B and station C to D?
(a) 25 (b) 30 (c) 34 (d) 38 (e) none of these

73. Which of the following is true?
(a) The number of females travelling from station A to B is equal to the no. of males travelling from station B to C.
(b) The total number of passengers travelling from station A to B is 45% of the no. of males who boarded from the starting point
(c) The difference between the no. of male and female travelling from station D to E is half of the difference between the no. of males and females travelling from station C to D

- (a) Only A (b) Only C (c) Only A & C
(d) Only B & C (e) All A, B and C

74. Find the ratio of total no. of passengers travelling from station D to E and B to C?
(a) 17 : 13 (b) 11 : 14 (c) 13 : 17 (d) 14 : 11 (e) 17 : 19

75. Total distance between A and B is 792 km and Car P starts from station A at 8 a.m with speed 64 km/hr towards B and Car Q starts from station B at 11 a.m with speed 86 km/hr towards A. Find the distance from station B when both cars will meet each other ?
(a) 430 km (b) 258 km (c) 344 km (d) 312 km (e) 384 km

76. A, B and C invested Rs 5500, Rs 4500 and Rs 6000 for three years in a partnership. After 1 year, A decreased his investment by Rs 1000, B increased his investment by Rs.500 and C's investment remains the same for the whole period of time. If the total profit at the end of 3 years is Rs 9400, then find the profit share of C?

(a) Rs 4200 (b) Rs 3600 (c) Rs 3800
(d) Rs 4000 (e) Rs 3000

Directions (77-80): Each of the following question is followed by two quantities I, and II. You have to determine the value of the quantities using the information provided and compare the quantities to answer as per the instruction set provided below.

- (a) Quantity I > Quantity II
(b) Quantity I $\geq$ Quantity II
(c) Quantity I < Quantity II
(d) Quantity I $\leq$ Quantity II
(e) Quantity I = Quantity II or no relation

77. **Quantity I:** By selling 15 apples, a seller gains the selling price of 2 apples. Calculate the cost price of an apple.
Quantity II: 25% profit is made on an article which is sold for 625 rupees. Calculate the cost price of the same article if it is sold for 435 rupees.

78. A train travelling at 54 kmph crosses a platform in 25 seconds and a man standing on the same platform in 12 seconds

Quantity I: Length of the train.

Quantity II: Length of the platform.

79. P works twice as fast as Q, whereas P and Q together can work 3 times as fast as R. P, Q and R together can do the same work in $\frac{15}{2}$ days

Quantity I: Time taken by P and Q together to complete the work.

Quantity II: Time taken by Q and R together to complete the work.

80. The age of Manan is 50% more than that the age of Shikhar. The age of Rohit is 20% less than the age of Manan. The age of Krunal is 10% less than the age of Rohit.

Directions (81-85): In each of the following questions, a sentence is given with one blank space. Below each sentence, FOUR words are given. Five different combinations of these words are given. You have to choose the combination with the correct words that coherently fit into the given sentence.

81. When Margot lost all her money, she was forced to live in _____.

(I) penury (II) mansion
(III) grandeur (IV) poverty

- (a) Only (I)
(b) Only (I), (III) and (IV)
(c) Both (I) and (IV)
(d) Both (II) and (III)
(e) All (I), (II), (III), (IV)

82. Scared of heights all her life, nothing would _____ Ruth's fear of flying.

(I) alleviate (II) reduce
(III) aggravate (IV) understand

- (a) Only (III)
(b) Only (I), (III) and (IV)
(c) Both (I) and (III)
(d) Both (I) and (II)
(e) All (I), (II), (III), (IV)

83. Sometimes it seems as though we live in a/an _____ world filled with uncaring people.

84. Practising the yoga class has helped me release my stress so I can become more _____.

(I) abundant (II) pernicious
(III) placid (IV) injurious

- (a) Only (III)
(b) Only (I), (III) and (IV)
(c) Both (I) and (III)
(d) Both (I) and (II)
(e) All (I), (II), (III), (IV)

85. The committee met for several hours, but _____ nothing because they argued the whole time.

(I) achieved (II) accomplished
(III) gained (IV) attained

- (a) Only (III)
(b) Only (I), (III) and (IV)
(c) Both (I) and (III)
(d) Both (I) and (II)
(e) All (I), (II), (III), (IV)

Directions (86-90): In the following questions two columns are given containing three sentences/phrases each. In first column, sentences/phrases are A, B and C and in the second column the sentences/phrases are D, E and F. A sentence/phrase from the first column may or may not connect with another sentence/phrase from the second column to make a grammatically and contextually correct sentence. Each question has five options, four of which display the sequence(s) in which the sentences/phrases can be joined to form a grammatically and contextually correct sentence. If none of the options given forms a correct sentence after combination, mark (e), i.e. "None of these" as your answer.

86. Column (1)

- (A) The company along with its
- (B) Including ongoing initiatives
- (C) IL&FS has appointed

Column (2)

- (D) Aligned with the broader objective
- (E) Advisers to prepare a
- (F) Subsidiaries is facing a
- (a) C-E and B-F
- (b) A-F
- (c) C-E
- (d) Both (b) and (c)
- (e) None of these

87. Column (1)

- (A) The increase in MSP for
- (B) There are notified crop
- (C) For big companies, the

Column (2)

- (D) The government said it
- (E) Just ahead of the
- (F) Of even the infrastruc
- (a) C-F
- (b) C-E and B-F
- (c) A-E
- (d) Both (a) and (c)
- (e) None of these

88. Column (1)

- (A) India will be the third largest aviation
- (B) The biggest contribution in
- (C) Firstly, we are seeing an

Column (2)

- (D) market globally a year sooner.
- (E) as the world's largest aviation
- (F) restrictive protectionist measures
- (a) C-F
- (b) B-F
- (c) A-D
- (d) C-E
- (e) None of these

89. Column (1)

- (A) Also, the broader NSE Nifty
- (B) All the sectoral indices closed in the red
- (C) Maruti Suzuki, India's largest carmaker

Column (2)

- (D) in their late morning deals .
- (E) Foreign Portfolio Investors (FPIs) sold shares .
- (F) with 22 of the 30 Sensex stocks finishing lower.
- (a) C-F
- (b) B-F
- (c) A-D
- (d) C-E
- (e) None of these

90. Column (1)

- (A) A writer needs
- (B) the garden itself being
- (C) All this is fine

Column (2)

- (D) houseboat on the silent river
- (E) somehow find the necessary bubble
- (F) quiet and peaceful environment around him in order to write.
- (a) C-F
- (b) B-F
- (c) A-F
- (d) C-E
- (e) None of these

Directions (91-100): Read the following passage carefully

as given below them. Certain words and phrases are printed in bold to help you answer some of the questions.

India is a country characterized by poor infrastructure which affect travel time and big **hindrance** in economic development. This leads to inefficiency in the services across the country. To address this, the government has **embarked** upon a massive overhauling of the country's road network through an umbrella highway programme involving 34,800 km of road worth Rs5.35 trillion, to be completed by 2022. The programme focuses on optimizing the efficiency of road movement across the country by bridging infrastructure gaps through shorter routes. The end goal is to create economic corridors (ECs) along the path—new industries, more employment and new markets.

The programme, however, will have a negative bearing on the existing road network because it will compete directly with some of the existing build-operate-transfer (BOT) toll road projects. Out of the 44 ECs, about 21 would partially or fully affect the existing alignments, while the remaining 23 that involve upgradation of existing alignment will not result in any deviation. Among the 21 corridors affected, eight have a totally different route (which is shorter) while the remaining 13 have some deviations from the existing alignment. Overall, there are 24 BOT projects and one operate-maintain-transfer (OMT) project whose traffic could be affected by the proposed ECs. The Bharatmala programme may result in traffic diversion from the existing road network to new roads, thereby affecting the toll collection and, consequently, the debt servicing ability of some of the BOT and OMT projects. This has raised the risk of default on 25 national highway toll projects which

To ensure that the existing BOT projects that are at risk of default **did not turn** bad for the financial institutions, swift and adequate measures are needed. The Kelkar committee had observed that since infrastructure projects span over 20-30 years, a private developer could be exposed to a lot of power owing to abrupt changes in government policy environment. It has thus recommended that the private sector must be protected against such risks. This could be ensured by allowing renegotiation of BOT projects in the event of the concession agreement.

Financial institutions are already exposed to the risk in the infrastructure sector, given the long gestation period of the assets (NPAs). Add to this the risk of default, which would arise in the case of 25 BOT projects, it would put additional stress on the road to financial recovery. The need of the hour is to realign the BOT model concession agreement so that it does not end up accumulating NPAs. A robust remedial mechanism for BOT projects and a special interest for investments in new BOT projects will help **curtail** the number of BOT projects at risk of default.

- 91.** According to the passage, Bharatmala Project aims to
- (I)** impact industrial development positively
 - (II)** create employment and develop new markets
 - (III)** improve the political status of the country.
- (a) Only (I)
(b) Only (II) and (III)
(c) Only (III)
(d) Only (I) and (II)
(e) All are correct
- 92.** According to the passage, what worries BOT operators?
- (a) The risk of loan default.
(b) Disruptions in integrated Infrastructure network.
(c) Inability to maintain the overall structure of highway network in India.
(d) Both (a) and (b)
(e) All are correct

93. The total debt at risk is
(a) Rs10,456 crore
(b) Rs3,483 crore
(c) Rs19,435 crore
(d) Rs9,416 crore
(e) Rs18,544 crore
94. The appropriate **title** of the passage is
(a) Renegotiating the concession agreement.
(b) Bharatmala and the rising debt issues
(c) Creating economic corridors
(d) the rising issue of stressed assets
(e) The Kelkar Committee
95. Remedial measure(s) available to BOT operators is/are
(I) provide them the necessary resources for accomplishment of the project.
(II) realigning the terms and conditions of the model concession agreement to ensure that banks do not accumulate NPAs.
(a) Only I
(b) Only II
(c) Both I and II
(d) Both I and II are incorrect
(e) All are correct
96. A phrase “turn” is given in the passage is highlighted. Which of the following alternatives may or may not contain the same phrase? There are five alternatives given which may replace the existing phrase and make the sentence grammatically correct and contextually meaningful.
Choose the most appropriate alternative as your answer. If the phrase is grammatically correct, as given, and doesn't require any correction, choose option (e) i.e., “No correction required” as your answer.
(a) does not turn (b) will not turn (c) do not turn
(d) could not turn (e) No correction required

Direction (97-98): Which of the following alternatives among the five options provides the MOST SIMILAR meaning(s) of the word given in BOLD as used in the passage?

- 97. Curtail**
- | | |
|-----------------------|-------------------|
| (I) reduce | (II) curb |
| (III) retrench | (IV) trunk |
- (a) Only (III)
(b) Only (II) and (IV)
(c) Only (I), (II) and (III)
(d) Only (II), (III) and (IV)
(e) All are correct

98. Embarked

- (I) commence (II) initiate
(III) rot (IV) undertake
(a) Only (III)
(b) Only (II) and (IV)
(c) Only (I), (III) and (IV)
(d) Only (I), (II) and (IV)
(e) All are correct

Direction (99-100): Which of the following alternatives among the five options provides the MOST OPPOSITE meaning(s) of the word given in BOLD as used in the passage?

99. Hindrance

- (I) contrite (II) impetus
(III) plausible (IV) Check
(a) Only (II)
(b) Only (II) and (IV)
(c) Only (I), (II) and (III)
(d) Only (II), (III) and (IV)
(e) All are correct

100. Reluctant

- (I) vaunt
(III) splendid
(a) Only (III)
(b) Only (II) and (IV)
(c) Only (I), (II) and (III)
(d) Only (II), (III) and (IV)
(e) All are correct

Directions (101-105): Read the passage carefully to find out whether there is any grammatical error in it. The error, if any, will be in one part of the passage. The number of that part is the answer. If there is no error, the answer is (e). (Ignore errors of punctuation and spelling.)

- 101.** Why we do not (a)/ meet in detail (c)/ on next Friday (b)/
102. Had the opportunity (a)/ been given to him (b)/ he will have (c)/ proved successful (d). / No Error. (e)
103. Jamuna takes delight (a)/with music and (b)/hopes to become (c)/a successful musician. (d)/No error. (e)
104. In spite of toiling (a)/ very hardly he (b)/ realized that he had (c)/ not earned anything substantial. (d)/ No error. (e)
105. You should inform (a)/ your superiors about (b)/ all those events which are (c)/ directly related to your work. (d)/ No error. (e)

Directions (106-110): Answer the following questions after rearranging the following sentences into a coherent paragraph and identify the sentence that doesn't fit into the context of the paragraph. Statement (A) is the first sentence of the paragraph after the rearrangement.

(A) Former RBI Governor Raghuram Rajan's note of caution on the next financial crisis that could be building up needs to be taken in all seriousness.

- (B)** Clearly, bankers were overconfident and probably did too little due diligence for some of these loans.
(C) The disbursement under Mudra loans alone is Rs.6.37 lakh crore, which is over 7% of the total outstanding bank credit.
(D) It is debatable whether banks have the resources and manpower to do this when they are chasing the bigger borrowers for business and, increasingly these days, recoveries.
(E) In his note to Parliament's Estimates Committee on bank non-performing assets (NPAs), Mr. Rajan has flagged three major sources of potential trouble.
(F) These loans have been sanctioned under the Pradhan Mantri Mudra Yojana, which aims to 'fund the unfunded', and is a signature scheme of the NDA government.
(G) They are Mudra credit, which is basically small-ticket loans granted to micro and small enterprises; lending to farmers through Kisan Credit Cards; and contingent liabilities under the Credit Guarantee Scheme for MSMEs, run by the Small Industries Development Bank of India.

These small loans up to Rs.10 lakh each, mostly from the informal sector, are being monitored by the RBI very closely.

106. Consider the following statements (A) "Former RBI Governor Raghuram Rajan's note of caution on the next financial crisis that could be building up needs to be taken in all seriousness." as the first sentence of the paragraph, then which one among the following can consecutively follow the last statement after the rearrangement (excluding the incoherent one)?

- (a) Not only could they play one lender off against another by threatening to divert payments to the favored bank, they could also refuse to pay unless the lender brought in more money, especially if the lender feared the loan becoming an NPA.
(b) The risk is that these small-ticket loans will drop under the radar and build into a large credit issue in course of time. The same logic holds true for crop loans made through Kisan Credit Cards.
(c) Yet, unless we can determine the unaccounted wealth of bankers, I hesitate to say a significant element was corruption.
(d) Frauds are different from normal NPAs in that the loss is because of a patently illegal action, by either the borrower or the banker.
(e) None of these

108. Among the following pairs which one of them is formed with two consecutive statements after the rearrangement?

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

109. Considering statement (A) "Former RBI Governor Raghuram Rajan's note of caution on the next financial crisis that could be building up needs to be taken in all seriousness." as the first sentence of the rearranged paragraph, identify the correct sequence of the sentences to form a coherent paragraph (excluding the incoherent one).

- (a) AEGCFHD (b) ADECBHF (c) AGHBCDE
(d) ABCDGHF (e) AEGFCBD

110. Considering statement (A) "Former RBI Governor Raghuram Rajan's note of caution on the next financial crisis that could be building up needs to be taken in all seriousness." as the first sentence of the rearranged paragraph, which of the following statement should be FO

- (a) D (b) C
(d) H (e) B

Directions (111-120): In the following passage, some of the words have been left out, each represented by a number. Find the suitable word from the options given against each number and fill in the appropriate words to make the passage complete.

In the __(111)__ of stakeholders, some of the recoverable resources __(112)__ lost due to dumping. Organic waste that could help green cities and __(116)__ small and affordable household biogas plants is simply being thrown away. It is also ironic that while some countries such as Rwanda and Kenya have introduced stiff penalties for the __(117)__ of flimsy plastic bags, India is doing little to __(118)__ them from drifting into suburban garbage mountains, rivers, lakes and the sea, and being __(119)__ by cattle feeding on dumped __(120)__.

compost or production of methane for household use or power generation. But it is a major opportunity __(115)__. Organic waste that could help green cities and __(116)__ small and affordable household biogas plants is simply being thrown away. It is also ironic that while some countries such as Rwanda and Kenya have introduced stiff penalties for the __(117)__ of flimsy plastic bags, India is doing little to __(118)__ them from drifting into suburban garbage mountains, rivers, lakes and the sea, and being __(119)__ by cattle feeding on dumped __(120)__.

111. (a) demolition (b) revive (c) restrict
(d) absence (e) permission
112. (a) settled (b) equipped (c) surrounded
(d) confined (e) embedded
113. (a) supplies (b) forms (c) classifies
(d) demands (e) extends
114. (a) manufacture (b) accumulation (c) generation
(d) foundation (e) conception

115. (a) missed (b) mislaid (c) lost
(d) trapped (e) snared
116. (a) deliver (b) produce (c) nurtures
(d) supply (e) generate
117. (a) in favor (b) against (c) gain
(d) select (e) choose
118. (a) reduce (b) discourage (c) prevent
(d) facilitate (e) reject
119. (a) grazed (b) ravaged (c) grasped
(d) limit (e) refuse
120. (a) evade (b) exclude (c) cease

Solutions

REASONING ABILITY

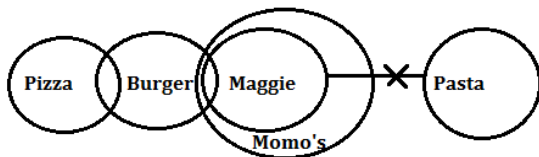
Solutions (1-5):

Year	Age	Persons	Professions
1968	51	Aditi	Artist
1972	47	Dheeraj	Manager
1978	41	Kamal	Teacher
1981	38	Nisha	HR
1987	32	Swati	Pilot
1998	21	Pranav	Doctor
2005	14	Pooja	Engineer

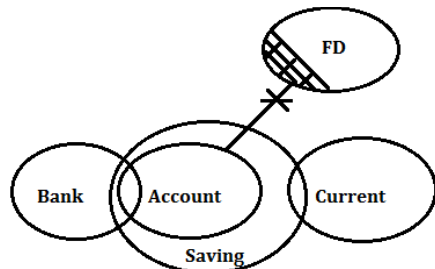
1. (e); 2. (b); 3. (d);
4. (b); 5. (b);

6. (d); In the above question it is clear that Statement II will be the cause and Statement I will be its effect. Because it is mentioned in statement II that jawans have doubt how to deal with the women so this will be cause and its effect will be, The Indian Army will recruit women in combat roles to tackle such kind of situation.
7. (c); Statement (I) suggests that royals are not kings or queens by choice but because they have to, for the welfare of the country which is in line with the statement. (II) fortifies the statement by stating out an example in which he had to face problems because of his royal background. (III) is irrelevant to the statement.

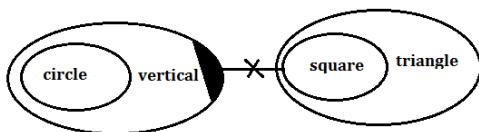
8. (d);



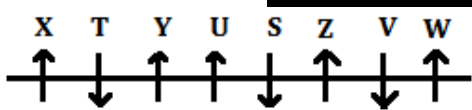
9. (c);



10. (b);



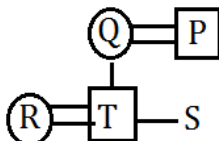
Solutions (11-15):



11. (c); 12. (b);

14. (d); 15. (c);

16. (e); By combining Statement I and II, we get that T is the husband of R.



17. (e); By combining Statement I and II, we get that the code for "cow" is "dc".

Words	Code
big	mn
cow	dc
rat	vg
dew/grass	bh/sx
same	qs
use	we

18. (d); We can't conclude that who is the 2nd shortest person by combining both statements.

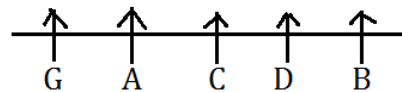
19. (c); By statement I, F is in topmost floor.

Floors	Persons
5	F
4	R
3	T
2	P
1	S

By statement II, P is in topmost floor.

Floors	Persons
5	P
4	R
3	S
2	T
1	F

20. (a); By statement I, C is at middle of the row.

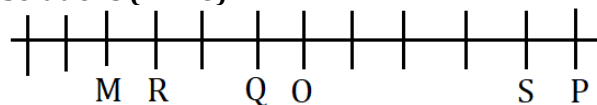


21. (b); I. $A > C$ (False) II. $E < B$ (True)

22. (a); I. $Q > T$ (True) II. $S \leq V$ (False)

23. (d); I. $F < N$ (False) II. $N > D$ (False)

Solutions (24-28):



26. (b);

24. (a); By statement I, the meeting is in between Indian and Chinese which is also mentioned in the statement that India and the UAE have discussed measures to deepen cooperation in a range of areas.

25. (e); By statement I, the meeting is in between Indian and Chinese which is also mentioned in the statement that India and the UAE have discussed measures to deepen cooperation in a range of areas.

26. (b); By statement I, the meeting is in between Indian and Chinese which is also mentioned in the statement that India and the UAE have discussed measures to deepen cooperation in a range of areas.

27. (a); By statement I, the meeting is in between Indian and Chinese which is also mentioned in the statement that India and the UAE have discussed measures to deepen cooperation in a range of areas.

28. (e); By statement I, the meeting is in between Indian and Chinese which is also mentioned in the statement that India and the UAE have discussed measures to deepen cooperation in a range of areas.

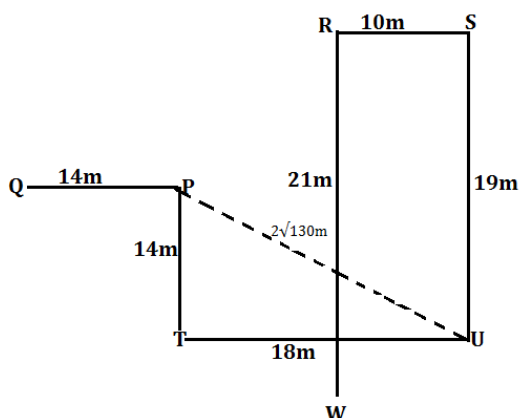
29. (c); By statement I, the meeting is in between Indian and Chinese which is also mentioned in the statement that India and the UAE have discussed measures to deepen cooperation in a range of areas.

30. (c); For I- This statement can't be hypothesized from the given statement as nothing is mentioned about facilities given under social welfare schemes for OBCs in the given statement.

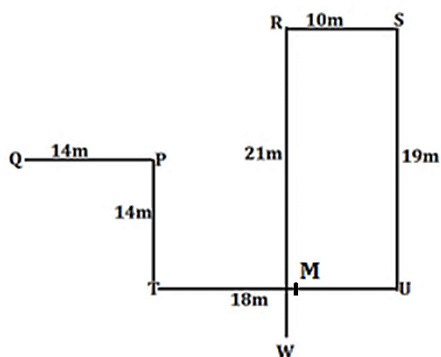
For II- This statement can be hypothesized from the given statement as it is mentioned in the given statement that Modi-led government has moved to reframe social welfare schemes for other backward classes (OBCs) in the run-up to the high stakes elections in Gujarat and Himachal Pradesh.

For III- This statement can't be hypothesized from the given statement as nothing is mentioned about facilities given under social welfare schemes for OBCs in the given statement.

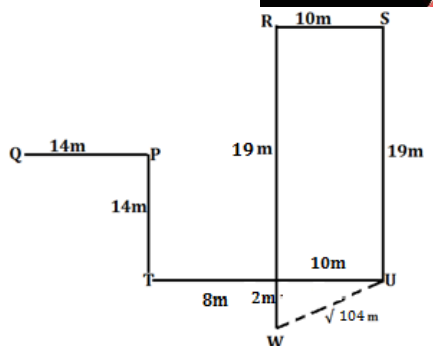
31. (a);



32. (a);



33. (d);



Solutions (34-38):

Box	Toffee
IK	Boomer
FH	Kismi bar
JL	Hajmola
MO	Coffee bite
EG	Gems
BD	Poppins
NP	Melody
AC	Center fresh

34. (e);

35. (b);

36. (d);

37. (e);

38. (e);

Solutions (39-40): The codes for the words are as follows:

Codes
jam
ram
mam
Dam
Pam
Bam
Vam
tam
Lam
Sam

39. (a);

40. (e);

QUANTITATIVE APTITUDE

41. (b); Total number of male rides taken by Driver B in January and March together

$$= 480 \times \frac{75}{100} + 420 \times \frac{50}{100}$$

$$= 360 + 210 = 570$$

Total no. of female rides taken by driver A in April and may together

$$= 570 \times \frac{40}{100} + 320 \times \frac{60}{100}$$

$$= 228 + 192 = 420$$

$$\text{Required percentage} = \frac{570-420}{420} \times 100$$

$$= 35.71\% = 36\% \text{ (approx.)}$$

42. (d); Total number of male rides taken by all the three drivers in March together

$$= 540 \times \frac{45}{100} + 420 \times \frac{50}{100} + 360 \times \frac{60}{100}$$

$$= 243 + 210 + 216 = 669$$

43. (e); Total no. of female ride taken by all the 3 drivers in January

$$= 360 \times \frac{40}{100} + 480 \times \frac{25}{100} + 560 \times \frac{30}{100}$$

$$= 144 + 120 + 168 = 432$$

Total no. of male rides taken by all the 3 drivers in March

$$= 540 \times \frac{45}{100} + 420 \times \frac{50}{100} + 360 \times \frac{60}{100}$$

$$= 243 + 210 + 216 = 669$$

$$\text{Required difference} = 669 - 432 = 237$$

44. (a); Total no. of female rides taken by driver A in April and May together
 $= 570 \times \frac{40}{100} + 320 \times \frac{60}{100}$
 $= 228 + 192 = 420$
 Total no. of male ride taken by Driver B in January and march together
 $= 480 \times \frac{75}{100} + 420 \times \frac{50}{100}$
 $= 360 + 210 = 570$
 Required ratio $= \frac{420}{570} = 14 : 19$

45. (b); Total number of female rides taken by Driver B in all the five months together
 $= 480 \times \frac{25}{100} + 380 \times \frac{40}{100} + 420 \times \frac{50}{100} + 520 \times \frac{45}{100}$
 $+ 500 \times \frac{48}{100}$
 $= 120 + 152 + 210 + 234 + 240 = 956$

46. (b); Total Balls = 8 + 5 + 6 = 19 balls
 Probability of getting all balls of same color
 $= \frac{8c_3 + 5c_3 + 6c_3}{19c_3}$
 $= \frac{(8 \times 7 \times 6 + 5 \times 4 \times 3 + 6 \times 5 \times 4)}{(19 \times 18 \times 17)}$
 $= \frac{19 \times 2 \times 1}{3 \times 2 \times 1}$
 Required probability

47. (c); Let suresh's age at the time of marriage be x yrs
 Therefore, Suresh's present age = x + 14 yrs
 Also, Suresh's present age = 28 yrs
 $\frac{3}{2}x = x + 14$
 $\frac{3}{2}x - x = 14$
 $x = 28$ years
 His son's age $= \frac{1}{3}$ of $\frac{3}{2}x$

48. (c); Here, perimeter of the square = 88 cm (given)
 Side of the square $= \frac{88}{4} = 22$ cm
 Area of the square $= a^2 = (22)^2 = 484$ cm²
 As it is given that area of equilateral triangle is equal to the area of the square
 So, the area of the equilateral triangle is 484 cm²

49. (e); Let the time take by A, B and C alone be A days, B days and C days respectively.
 ATQ, $2\left(\frac{1}{A} + \frac{1}{B}\right) + \frac{34}{5} \times \left(\frac{1}{A} + \frac{1}{B} + \frac{1}{C}\right) = 1$
 $2\left(\frac{1}{24} + \frac{1}{B}\right) + \frac{34}{5} \times \frac{1}{8} = 1$
 $\frac{1}{12} + \frac{2}{B} = \frac{3}{20}$
 $\frac{2}{B} = \frac{3}{20} - \frac{1}{12}$
 $\frac{2}{B} = \frac{9-5}{60}$
 $\frac{2}{B} = \frac{4}{60}$
 $B = 30$ days

50. (b); Ratio of Milk and water in mixture = 60 : 40
 $= 3 : 2$
 Quantity of Milk left in mixture after 20 gm of mixture is taken out $= 60 \times \frac{3}{5} = 36$ gm.
 Quantity of water left $= 60 \times \frac{2}{5} = 24$ gm
 $\therefore$ Required ratio $= \frac{36}{24+6} = 6 : 5$

51. (d); Ratio of amount invested by P, Q and R = 8 : 6 : 9

A	B	C
8×12	6×5	10×7
96	30	70

 Ratio of their profit shares

A	B	C
24	25	27

 Profit share of B $= \frac{1350}{27-24} \times 25 = \text{Rs. } 11,250$

Solutions (52-56):

Day	Quantity of wet waste	Ratio of wet to dry waste	Difference between dry and wet waste. (wet>dry)	Dry waste
Mon	100 kg	5 : 4	20 kg	80 kg
Tue	110 kg	5 : 4	22 kg	88 kg
Wed	99 kg	9 : 7	22 kg	77 kg
Thu	84 kg	7 : 5	24 kg	60 kg
Fri	96 kg	12 : 7	40 kg	56 kg

The above table is formed by calculating all the missing data as per instructions

52. (d); On Wednesday, the truck picks only 80% of the capacity
 Capacity picked on Wednesday
 $= 180 \times \frac{80}{100} = 144$ kg
 Quantity of wet waste picked = 99 kg
 Quantity of dry waste picked = 144 - 99 = 45 kg
 Required difference = 99 - 45 = 54 kg

53. (b); As on Thursday, Quantity of wet waste is 84 kg and the difference between wet waste and dry waste is 24 kg (Given)
 Quantity of Dry waste = 84 - 24 = 60 kg
 As in the question, the ratio of wet waste and dry waste is 7 : y (Given)
 ATQ, $\frac{84}{60} = \frac{7}{y}$
 Therefore, $y = \frac{60}{12} = 5$

54. (e); Total dry waste produced on Monday, Tuesday and Friday together = 80 + 88 + 56 = 224 kg
 Total wet waste produced on Wednesday and Thursday together = 99 + 84 = 183 kg
 Required ratio = 224 : 183

55. (c); Total amount of waste left by the end of the Wednesday
 $= (180 - 180) + (198 - 180) + (176 - 180)$
 $= (0 + 18 - 4) = 14$ kg

56. (c); Total quantity of dry waste taken on all the 5 days together = $80 + 88 + 77 + 60 + 56 = 361$ kg

57. (a); Here, the pattern followed is

$$300 + (3^3 - 3) = 324$$

$$324 + (4^3 - 4) = 384$$

$$384 + (5^3 - 5) = 504$$

$$504 + (6^3 - 6) = 714 = P$$

$$714 + (7^3 - 7) = 1050$$

The next two series given follows the same pattern as above series

And according to that pattern, the value of Q and R are 534 and 614 respectively

Here, $P > Q < R$

58. (c); Here, the pattern followed is

$$2700 \times 2 = 5400$$

$$5400 \div 3 = 1800 = P$$

$$1800 \times 4 = 7200$$

$$7200 \div 5 = 1440$$

$$1440 \times 6 = 8640$$

The given next two series follows the same pattern as above series

And according to that pattern, the value of Q and R are 4200 and 4000 respectively

Here, $P < Q > R$

59. (d); Here, the pattern followed is

$$35 \times 2 = 70$$

$$70 \times 3 = 210$$

$$210 \times 4 = 840 = P$$

$$840 \times 5 = 4200$$

$$4200 \times 6 = 25200$$

The next two series follow the same pattern as above series

And according to that pattern, the value of Q and R are 840 and 960 respectively

Here, $P = Q < R$

60. (c); Here, the pattern followed is

$$(7 \times 2) + 1 = 15$$

$$(15 \times 3) + 2 = 47$$

$$(47 \times 4) + 3 = 191$$

$$(191 \times 5) + 4 = 959 = Q$$

$$(959 \times 6) + 5 = 5759$$

The next two series follows the same pattern as above series

And according to that pattern, the value of P and R are 239 and 1439 respectively

Here, $P < Q < R$

61. (c); I. $2x^2 + 11x + 12 = 0$

$$2x^2 + 8x + 3x + 12 = 0$$

$$2x(x + 4) + 3(x + 4) = 0$$

$$(x + 4)(2x + 3) = 0$$

$$x = -4, -\frac{3}{2}$$

II. $8y^2 - 22y - 21 = 0$

$$8y^2 + 6y - 28y - 21 = 0$$

$$2y(4y + 3) - 7(4y + 3) = 0$$

$$(2y - 7)(4y + 3) = 0$$

$$y = \frac{7}{2}, -\frac{3}{4}$$

So, $x < y$

62. (a); I. $x^2 - 17x - 60 = 0$

$$x^2 - 20x + 3x - 60 = 0$$

$$x(x - 20) + 3(x - 20) = 0$$

$$(x + 3)(x - 20) = 0$$

$$x = -3, 20$$

II. $y^2 + 42y + 185 = 0$

$$y^2 + 37y + 5y + 185 = 0$$

$$y(y + 37) + 5(y + 37) = 0$$

$$(y + 5)(y + 37) = 0$$

$$y = -5, -37$$

So, $x > y$

63. (c); I. $x^2 - 2x - 15 = 0$

$$x^2 - 5x + 3x - 15 = 0$$

$$x(x - 5) + 3(x - 5) = 0$$

$$(x + 3)(x - 5) = 0$$

$$x = -3, 5$$

II. $y^2 - 13y + 42 = 0$

$$y^2 - 21y + 8y + 42 = 0$$

$$y(y - 21) + 8(y - 21) = 0$$

$$(y - 5)(y - 21) = 0$$

$$y = 5, 21$$

So, $x < y$

64. (c); I. $x^2 - 13x + 42 = 0$

$$x^2 - 21x + 8x + 42 = 0$$

$$x(x - 21) + 8(x - 21) = 0$$

$$(x - 13)(x - 21) = 0$$

$$x = 13, 21$$

II. $y^2 + 6y - 432 = 0$

$$y^2 + 24y - 18y - 432 = 0$$

$$y(y + 24) - 18(y + 24) = 0$$

$$(y - 18)(y + 24) = 0$$

$$y = 18, -24$$

So, No relation

65. (b); Total fees of Doctor C per patient

$$= 1500 + 1500 \times \frac{20}{100} = \text{Rs } 1800$$

$$\text{Total fees received by Doctor C} = 1800 \times 88$$

$$= \text{Rs } 158400$$

$$\text{Total fees of Doctor D per patient}$$

$$= 1500 + 1500 \times \frac{20}{100} = \text{Rs } 1800$$

$$\text{Total fees received by Doctor D} = 1800 \times 112$$

$$= \text{Rs } 201600$$

$$\text{Required difference} = 201600 - 158400$$

$$= \text{Rs } 43200$$

66. (c); Total fees of Doctor A per patient
 $= 1000 + 1000 \times \frac{15}{100} = \text{Rs } 1150$
 Total fees received by Doctor A = $1150 \times 100 = 115000 \text{ Rs}$
 Total fees of Doctor E per patient
 $= 2000 + 2000 \times \frac{25}{100} = \text{Rs } 2500$
 Total fees received by Doctor E = $2500 \times 60 = 150000 \text{ Rs}$
 Required ratio = $\frac{115000}{150000} = 23 : 30$

67. (a); Total fees of Doctor B per patient
 $= 1000 + 1000 \times \frac{15}{100} = \text{Rs } 1150$
 Total fees received by Doctor B = $1150 \times 40 = 46000 \text{ Rs}$
 Total fees of Doctor E per patient
 $= 2000 + 2000 \times \frac{25}{100} = \text{Rs } 2500$
 Total fees received by Doctor E = $2500 \times 60 = 150000 \text{ Rs}$
 Required percentage
 $= 69 \frac{1}{3}\%$

68. (a); Current fees of Doctor A = 2500
 Increased fees of Doctor A = $2500 + 2500 \times \frac{15}{100} = 2875$
 Total fees received by Doctor A (after 15% increase) = $2875 \times 60 = 172500$
69. (c); Total fees of Junior Doctor A per patient
 $= 1000 + 1000 \times \frac{15}{100} = \text{Rs } 1150$
 Total fees of Senior Doctor A per patient
 $= 1500 + 1500 \times \frac{20}{100} = \text{Rs } 1800$
 Fees received by both doctors together = $(1150 + 1800) \times 100 = 295000$
 Required average = $\frac{295000}{2} = \text{Rs } 147500$

Solutions (70-74): As given, at station A, 80 persons board and the ratio of male to female is 9 : 7, therefore there will be 45 male and 35 female.
 Then at station B, 15 men got down and 5 women board the train, therefore total men at station B be 30 and total female is 40.
 Then at station C, half of the women got down and same no. of men boarded the train, then total male will be 50 and total female will be 20.
 Finally at station D, x no. of male got down and ratio of male to female is 7 : 4, then total no. of male will be 35 and total female will be 20

STATION	Male	Female
A	45	35
B	30	40
C	50	20
D	$50 - x = 35$	20

70. (b); Total males who do not have a valid ticket from Station B to C = $30 \times \frac{50}{100} = 15$
 Total females who do not have a valid ticket from Station B to C = $40 \times \frac{60}{100} = 24$
 Total invalid ticket travellers from Station B to C = $15 + 24 = 39$

71. (d); Total no. of females travelling from station B to C = 40
 Total no. of males travelling from station D to E = 35
 Required percentage = $\frac{40-35}{35} \times 100 = 14.28\% = 14\% \text{ (approx.)}$

72. (a); Total no. of passengers travelling at starting point = $45 + 35 = 80$
 Total no. of passengers travelling till destination point = $35 + 20 = 55$
 Required difference = $80 - 55 = 25$

73. (b); Total no. of males travelling from station A to B = 45
 Total no. of females travelling from station D to E = 20
 Difference between no. of males and females travelling from station A to B and station D to E = $45 - 20 = 25$
 Therefore, statement A is true
74. (a); Total no. of passengers travelling from station C to D = $50 - 20 = 30$
 Total no. of passengers travelling from station B to C = $30 + 40 = 70$
 Required ratio = $\frac{55}{70} = 11 : 14$
75. (c); Relative speed of car = $64 + 86 = 150 \text{ km/hr}$
 Distance travelled by Car P in 3 hrs = $64 \times 3 = 192 \text{ km}$
 Remaining distance = $792 - 192 = 600 \text{ km}$
 Time taken to cover remaining distance where they will meet each other = $\frac{600}{150} = 4 \text{ hrs}$
 Distance travelled by Car Q from station B in 4 hrs = $86 \times 4 = 344 \text{ km}$

76. (b);

A	:	B	:	C
5500×12		4500×12		6000×36
+		+		
4500×24		5000×24		
=		=		=
29	:	29	:	36

Profit share of C = $9400 \times \frac{36}{94} = \text{Rs } 3600$

77. (a); **Quantity I:** Let SP of one apple be 1 rs

SP of 15 apple = 15 rs

And profit = 2 rs

CP = 15 - 2 = 13 rs.

% Profit = $\frac{2}{13} \times 100 = 15.38\%$

Quantity II: 625 = 125%

Therefore, $425 = \frac{125}{625} \times 435 = 87\%$

Loss % = 100 - 87 = 13 %

Hence, Quantity I > Quantity II

78. (c); Let length of the platform be x metres

Speed of the train = 5

According to the question, we have

cross a man on the platform

So, length of the train

Again, Time taken by train to cross the platform
= 25 sec

Length of the platform = $25 \times 15 - 180$

= $375 - 180 = 195 \text{ m}$

Hence, Quantity I < Quantity II

79. (c); P : Q = 2:1 (efficiency ratio)

(P+Q) : R = 3 : 1 (efficiency ratio)

Thus, P : Q : R = 2: 1: 1 (efficiency ratio)

Now total work = $\frac{15}{2} \times 4 = 30$ units

Quantity I: Time taken by P and Q together to
complete the work = $\frac{30}{3} = 10$ days

Quantity II: Time taken by Q and R together to
complete the work = $\frac{30}{2} = 15$ days

Hence, Quantity I < Quantity II

80. (a); Shikhar Manan Rohit Krunal

$100 \ 150 \ 150 \times \frac{80}{100} = 120 \ 120 \times \frac{90}{100} = 108$

50 75 60 54

Percentage = $\frac{60-50}{50} \times 100 = 20\%$

$\frac{10}{125} \times 100 = 8\%$

I > Quantity II

81. (c); Among the given words, alternatives (I) and (IV) suitably fit in the blank and form a grammatically correct and contextually coherent sentence. All the other words fail to adhere, either the grammatical syntax or the context of the sentence. Hence, option (c) is the most suitable answer choice.

Penury means the state of being very poor; extreme poverty.

Mansion means a large, impressive house.

Grandeur means splendour and impressiveness, especially of appearance or style.

Poverty means the state of being extremely poor.

82. (d); Among the given words, alternatives (I) and (II) suitably fit in the blank and form a grammatically correct and contextually coherent sentence. All the other words fail to adhere, either the grammatical syntax or the context of the sentence. Hence, option (d) is the most suitable answer choice.

Alleviate means make (suffering, deficiency, or a problem) less severe.

Aggravate means make (a problem, injury, or offence) worse or more serious.

83. (b); Among the given words, alternatives (I), (III) and (IV) suitably fit the blank and form a

correct and contextually coherent sentence. All the other words fail to adhere, either the grammatical syntax or the context of the sentence. Hence, option (b) is the most suitable answer choice.

Indifferent means showing or feeling no interest, enthusiasm, or concern.

Passive means accepting or allowing what happens or what others do, without active response or resistance.

Indifferent means having no particular interest or sympathy; unconcerned.

84. (a); Among the given words, only alternative (III) suitably fits in the blank and form a grammatically correct and contextually coherent sentence. All the other words fail to adhere, either the grammatical syntax or the context of the sentence. Hence, option (a) is the most suitable answer choice.

Abundant means existing or available in large quantities; plentiful.

Pernicious means having a harmful effect, especially in a gradual or subtle way.

Placid means not easily upset or excited.

Injurious means causing or likely to cause damage or harm.

85. (e); All the given words suitably fit in the blank forming a grammatically correct and contextually coherent sentence. Hence, option (e) is the most suitable answer choice.

Achieved means successfully bring about or reach (a desired objective or result) by effort, skill, or courage.

Accomplished means achieve or complete successfully.

Gained means obtain or secure (something wanted or desirable).

Attained means succeed in achieving (something that one has worked for).

86. (d); IL&FS has appointed advisers to prepare a resolution plan, (C) and (E) makes a perfect match.

The company along with its subsidiaries is facing a liquidity crisis, (A) and (F) makes a perfect match.

87. (d); For big companies, the government has been the infrastructure get (C) and (F) makes perfect match as a sentence. The increase in crops comes just ahead of the policy announcement, (A) and (E) makes a perfect match as in sentence.

88. (c); Only sentence (A) and (F) makes a perfect match as a sentence, India's aviation market global.

89. (b); Only sentence (B) and (E) makes a perfect match as they both together indices closed in the Sensex stocks finishing.

90. (c); Only sentence (A) and (F) makes a perfect match as a sentence, "A writer needs quiet and peaceful environment around him in order to write."

91. (d); We can conclude from first paragraph of the passage that sentences (I) and (II) are in relevance with the passage. As mentioned in the paragraph that the goal is to create new industries, more employment and new markets. Sentence (III) is totally irrelevant in context to the passage.

Hence option (d) is the correct choice.

Refer the lines "The programme focuses on optimizing the efficiency of road traffic movement across the country by bridging critical infrastructure gaps through shorter routes. The end goal is to create economic corridors (ECs) along the path—new industries, more employment and new markets."

92. (d); Both (a) and (b) options are correct in context of the passage.

Existing road network got affected with implementation of Bharatmala Pariyojana. This programme affect the toll collection and thereby debt servicing ability. Hence option (d) is the correct choice. Sentence (c) is incorrect as it is not mentioned anywhere in the passage.

Refer the lines "The Bharatmala programme may result in traffic diversion from the existing road network to new roads, thereby affecting the toll collection and, consequently, the debt servicing ability of some of the BOT and OMT projects."

"Out of the 44 ECs, about 21 would partially or fully affect the existing alignments, while the remaining 23 that involve upgradation of existing alignment will not result in any deviation."

93. (c); The total debt at risk is Rs19,435 crore. It has mentioned in the passage that debt servicing risked the risk of default on 25 projects involving of debt.

option (b) is the most appropriate choice. Refer the second paragraph "This has led to default on 25 national highway projects which involve Rs19,435 crore of debt."

94. (b); "Bharatmala programme" is an appropriate choice of the passage.

95. (b); Refer the third paragraph of the passage in which it is mentioned that the need of the terms and conditions of the concession agreement to ensure that the BOT projects do not end up accumulating NPAs. Now in the third paragraph, refer the lines "This could be achieved by allowing renegotiation of the terms of the concession agreement.". Hence option (b) is the correct choice. Sentence (I) is irrelevant here.

96. (c); 'do not turn' is the correct phrase to be replaced thus making the sentence grammatically correct. The sentence is in present tense 'are needed', 'are at risk' Hence 'could' and 'would' will not be used as they are past form of 'can' and 'will'. The subject of the sentence 'BOT projects' is plural hence, 'does' will not be used. Hence 'do not turn' is the correct choice making option (c) as correct.

97. (c); Curtail means reduce in extent or quantity; impose a restriction on. Hence (I), (II) and (III) are similar in meaning to Curtail.

98. (d); Embarked means begin (a course of action). Hence it has same meaning as commence, initiate and undertake.

Commence means begin.

Rot means decay or cause to decay.

99. (a); **Hindrance** means a thing that provides resistance, delay, or obstruction to something or someone. Hence it has opposite meaning as that to **impetus** which means something that makes a process or activity happen or happen more quickly.

Plausible means in a way that seems reasonable or probable.

Contrite means feeling or expressing remorse at recognition that one has done wrong.

100. (b); **Reluctant** means unwilling and hesitant; disinclined. Hence it has opposite meaning as **willing** and **eager**.

Splendid means magnificent, very impressive.

Vaunt means boast about or praise.

101. (a); 'Why do we not' will come in place of 'why we do not' as the sentence is in interrogative form.

102. (c); In place of 'he will have', 'he would have been' will be used.

With Had+ subject + V3
+ have + been + V3 is

Ex. **Had** he **been** **talked** **would**
have been saved.

103. (b); Replace 'with' by 'without'. 'without' is the correct word. 'with' is the wrong word. e.g. She **takes delight** in something.

104. (b); 'hard' will be used in the sentence. 'hardly' as 'hardly' is used to depict 'rarely' whereas 'hard' means 'tough'.

105. (e); The sentence is grammatically correct.

106. (c); Drawing a hint from statement (A), it can be understood that the paragraph is describing about an alarming note issued by Former RBI Governor Raghuram Rajan regarding the cumulative bad-debts which can lead to financial crisis. Among the given sentences, only statement (B) is describing about the lack of professionalism on the part of Banks while issuing loans. It is to be noted that sentence (B) begins with "Clearly" which is indicating that something similar in context should have been mentioned in the earlier statements. Since, none of the statement can find relevance with statement (B), option (c) becomes most suitable answer choice.

107. (b); Drawing a hint from statement (A), it can be understood that the paragraph is describing about an alarming note issued by Former RBI Governor Raghuram Rajan regarding the cumulative bad-debts which can lead to financial crisis. Statement (E) should logically follow statement (A) as it is further providing

information on the note issued by him stating the three troubles that could be caused by increasing non-performing assets. Next should be statement (G), as it provides information on the troubles mentioned in statement (E). Since statement (C) provides data on the outstanding loan it should be following statement (G). Statement (F) provides information on the mudra loans mentioned in statement (C). Statement (H), quotes the problem and the solution to recover the small loans. Statement (D) coherently connects with statement (H) forming a meaningful paragraph. Among the given sentences, only statement (B) is describing about the lack of professionalism on the part of Banks while issuing loans. It is to be noted that sentence (B) begins with "Clearly" which is indicating that something similar in context should have been mentioned in the earlier statements. Therefore, statement (B) is

the sequence formed is the last statement, statement (B) is about the problems associated to recover the loans, the next option (b) as it is further the risk if these small loans from a huge amount. Since all the other options are incoherent, option (b) is the answer choice.

108. (e); Drawing a hint from statement (A), it can be understood that the paragraph is describing about an alarming note issued by Former RBI Governor Raghuram Rajan regarding the cumulative bad-debts which can lead to financial crisis. Statement (E) should logically follow statement (A) as it is further providing information on the note issued by him stating the three troubles that could be caused by increasing non-performing assets. Next should be statement (G), as it mentions all the three troubles mentioned in statement (E). Therefore, statements (E) and (G) form a logical pair. Hence, option (e) is the most suitable answer choice.

109. (a); Drawing a hint from statement (A), it can be understood that the paragraph is describing about an alarming note issued by Former RBI Governor Raghuram Rajan regarding the cumulative bad-debts which can lead to financial crisis. Statement (E) should logically follow statement (A) as it is further providing information on the note issued by him stating the three troubles that could be caused by increasing non-performing assets. Next should be statement (G), as it provides information on the troubles mentioned in statement (E). Since

statement (C) provides data on the outstanding loan it should be following statement (G). Statement (F) provides information on the mudra loans mentioned in statement (C). Statement (H), quotes the problem and the solution to recover the small loans. Statement (D) coherently connects with statement (H) forming a meaningful paragraph. Among the given sentences, only statement (B) is describing about the lack of professionalism on the part of Banks while issuing loans. It is to be noted that sentence (B) begins with "Clearly" which is indicating that something similar in context should have been mentioned in the earlier statements. Therefore, statement (B) is incoherent. Thus the sequence formed is **AEGCFHD**. Hence, option (a) is the most suitable answer choice.

110. (b); Drawing a hint from statement (A), it can be understood that the... about an alarming... Governor Raghuram... the cumulative bad-debts... financial crisis. The logical sequence... after... rearrangement excluded... one is... **AEGCFHD**. Since statement... the four... is the most suitable answer choice.

111. (d); 'absence' is the correct word. **Desertion** means abandonment. **Paucity** means the only small or insufficient. **Sparsity** means to scatter.

112. (e); 'embedded' is the correct word to be filled in the blank.

According to the theme of the paragraph, 'embedded' is the correct word.

113. (b); 'forms' is the correct word.

114. (c); 'generation' is the correct word.

As production is used in the sentence, hence we can get the idea that generation will be the answer.

115. (c); 'lost' is the correct word.

Awed means filled with awe or wonder.

Misled means cause (someone) to have a wrong idea or impression.

Rapt means completely fascinated or absorbed by what one is seeing or hearing.

116. (a); 'feed' is the correct word to be filled in the blank.

...are useful for the use of small households.

117. (a); 'act' is the correct word.

118. (c); 'correct' is the correct word.

119. (d); 'correct' is the correct word to be filled in the blank.

Ravi's house was severely damaged.

120. (b); 'refuse' is the correct word.

...also used elsewhere in the... can get a hint.

...worthless and useless part of...

