

IBPS IT Officers Scale I: Practice Paper

Quantitative Aptitude

Directions (1-5): What should come in place of the question mark (?) in the following number series?

1) 7 , 5 , 7 , 17 , 63 , ?

- a) 308
- b) 302
- c) 309
- d) 409
- e) 390

2) 50 , ?, 61 , 89 , 154 , 280

- a) 52
- b) 51
- c) 60
- d) 62
- e) 60

3) 17 , 19 , 25 , 37 , ? , 87

- a) 47
- b) 37
- c) 57
- d) 67
- e) 75

4) 11 , 14 , 19 , 28 , 43 , ?

- a) 55
- b) 44
- c) 77
- d) 88
- e) 66

5) 26 , 144 , 590 , 1164 , ?

- a) 1296

- b) 1182
- c) 2059
- d) 1182
- e) 1181

Directions (6-10) In each of the following questions, two equations are given. You have to solve them and give answer.

- a) If $x \geq y$
- b) If $x > y$
- c) If $x < y$
- d) If $x \leq y$
- e) If $x = y$

6)

$$\frac{3}{4}x - \frac{7}{6}X = \frac{12}{15}x - \frac{25}{24}Y$$



- 7)
- I. $x + y = 16$
 - II. $x^2 + y^2 + xy = 192$

- 8)
- I. $4x^2 + 8x = 4x + 8$
 - II. $y^2 + 9y = 2y - 12$

- 9)
- I. $2x^2 + 40 = 18x$
 - II. $y^2 = 13y - 42$

- 10)
- I. $6x^2 + 1 = 7x$
 - II. $12y^2 + 2 = 10y$

Directions (11-15): Study the table carefully answer the questions given below.

Following table shows the percentage population of six states below poverty line and the proportion of males and females?

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State	Percentage population below poverty line	Proportion of male and female	
		Below poverty line M: F	Above poverty line M: F
S_1	16	4:3	3:2
S_2	18	3:4	5:7
S_3	26	2:3	4:5
S_4	28	5:6	1:2
S_5	12.5	3:2	6:5
S_6	36	4:5	2:3

11) If the total population of state S_1 is 4400, then what is the approximate number of females above the poverty line in state S_1 ?

- a) 1478
- b) Other than the given options
- c) 1578
- d) 1484
- e) 1487

12) If the total population of state S_3 and S_4 together is 17000, then what is the total number of females below the poverty line in the above-mentioned states?

- a) 1320
- b) 6820
- c) 4850
- d) Data inadequate
- e) Other than the given options

13) If the population of males below the poverty line in state S_1 is 18000 and that in state S_5 is 24000, then what is the ratio of the total population of state S_1 to that of state S_5 ?

- a) 315:512

- b) 316:513
- c) Other than the given options
- d) 315:513
- e) 319:512



14) If the population of males above the poverty line in state S_2 is 4100 then what is the total population of that state?

- a) Other than the given options

- b) 12500
- c) 13000
- d) 14000
- e) 12000

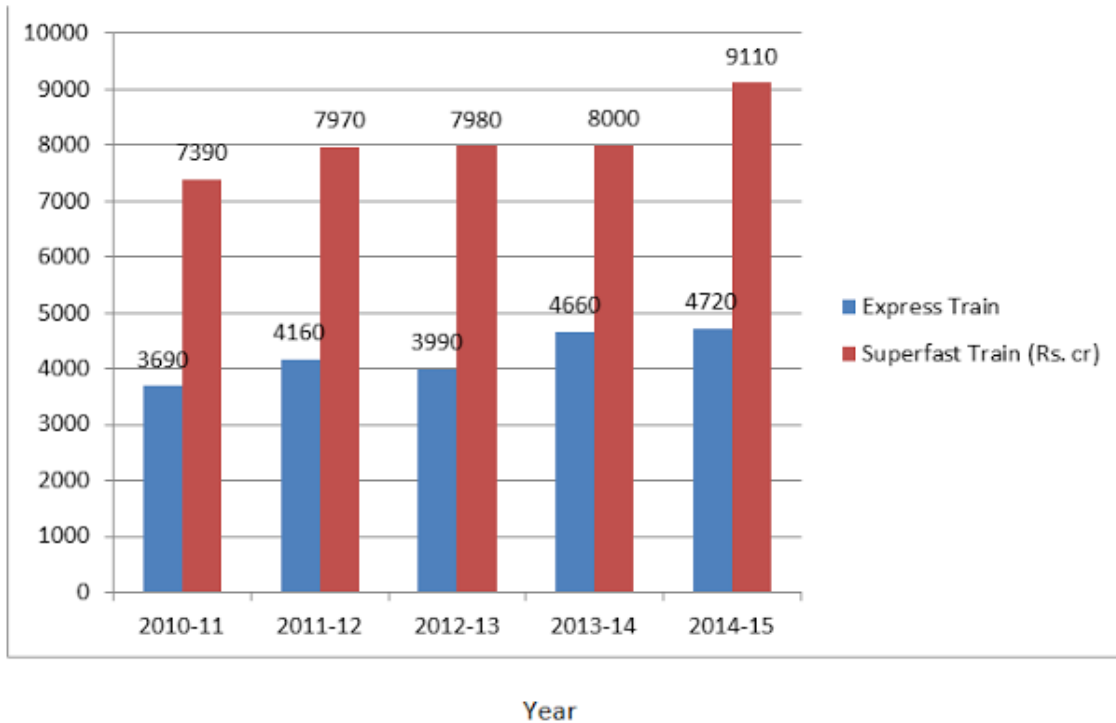
15) If in state S_6 the population of females above the poverty line is 4800 then what is the population of males below the poverty line in that state?

- a) 2400
- b) 2000
- c) 2500
- d) Other than the given options
- e) 2800

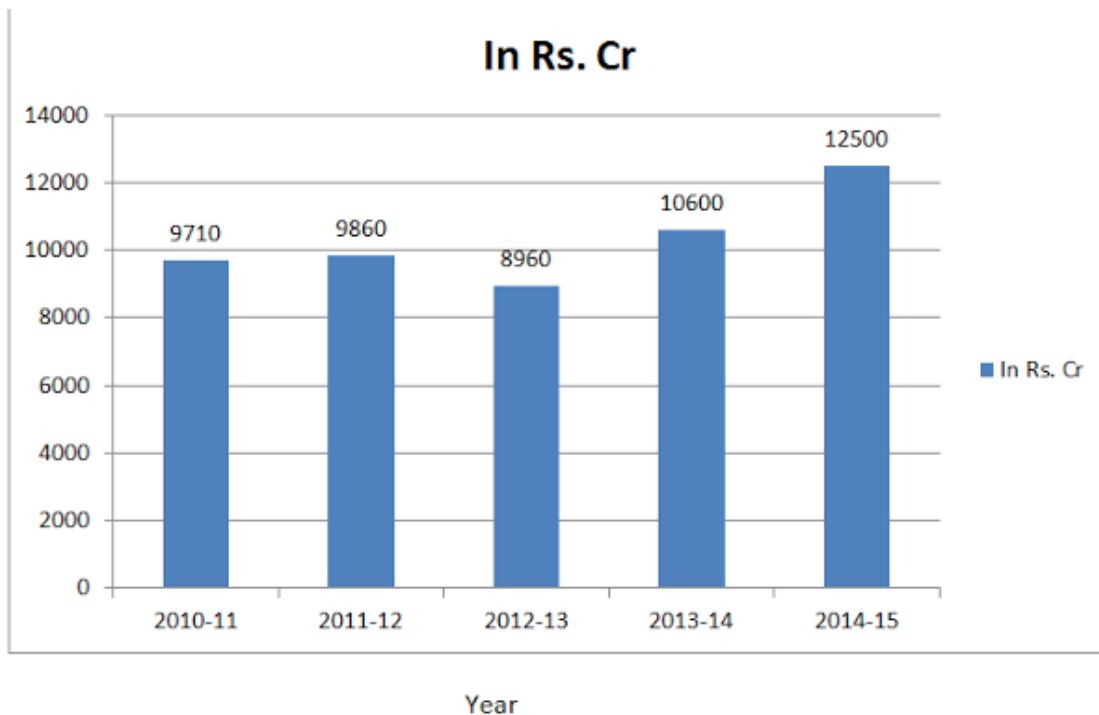
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Directions (16-20): Study the following bar graphs to answer the questions given below:

Income of railways from the Super fast trains and Express trains



Total Expenditure of the Railway on both (Super fast trains and Express trains) [Profit = Income - Expenditure]



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16) In which of the following years is the percentage increase/ decrease in the percentage increase/decrease in the total income of the Railways the maximum in comparison to its previous year?

- a) 2012 - 13
- b) 2014 -15
- c) 2011-12
- d) 2013-14
- e) Both 1) and 3)

17) In which of the following years is the profit of the Railways the maximum?

- a) 2011-12
- b) 2012-13
- c) 2013-14
- d) Other than the given options
- e) 2010- 11

18) In how many years is the income from Express trains less than the average income of the Express trains in all the given years together?

- a) 3
- b) 1

- c) None
- d) Other than the given options
- e) 2

19) What is the approximate percentage income from Super fast train in 2011-12 in comparison to the total income from Super fast trains for all the given years?

- a) Other than the given options
- b) 24%
- c) 28%
- d) 20%
- e) 29%

20) The total expenditure of the Railways on both the trains is approximately what percent of the total income of the Railway from both the trains for all the given years together?

- a) 83.7%
- b) 81.6%
- c) Other than the given options
- d) 78.9%
- e) 86.7%



Direction (21-26): Study the table carefully and answer the questions given below:

Details of employees deployed at different levels by a company in different departments.

Department	Manager		Officer	
	Number	M : F	Number	M : F
Operations	2200	7 : 4	2800	6 : 8
Public relations	1800	5 : 4	2500	9 : 11
Finance	2500	14 : 11	3200	17 : 15
Advertising	2900	12 : 17	1600	9 : 7
Sales	2400	9 : 7	2600	8 : 5

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Procurement	2700	5 : 4	2200	9 : 13
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21) The total number of female employees (Managers and Officers) in Procurement department is approximately by what per cent more than their male counterparts?

- a) 2%
- b) 6%
- c) 4%
- d) 8%
- e) 9%

22) The number of female managers in Finance department is what per cent of the total number of male managers in Sales department?

- a) 77%
- b) 82%
- c) 78%
- d) 84%
- e) 81%

23) What is the ratio of the total number of female managers in Operations and Finance departments to that of male officers in these two departments?

- a) 25:29
- b) 19:26
- c) 19:25
- d) 19:29
- e) 22:29

24) The total number of male officers in Advertising and Sales departments is approximately what per cent the total number of officers in these two departments?

- a) 55.8%
- b) 56%
- c) 57.5%
- d) 54%
- e) 59.5%

25) What is the difference between the total number of female officers in Advertising and Public Relations department and the total number of female managers in these two departments?

- a) 405
- b) 415
- c) 425
- d) 435
- e) 395

26) What is the ratio of the total number of managers in Public relations, Finance, Sales and Operations department to the total number of officers in Finance, Advertising, Sales and Procurement department?

- a) 89:95
- b) 87:96
- c) 87:89
- d) 93:95
- e) 89:96



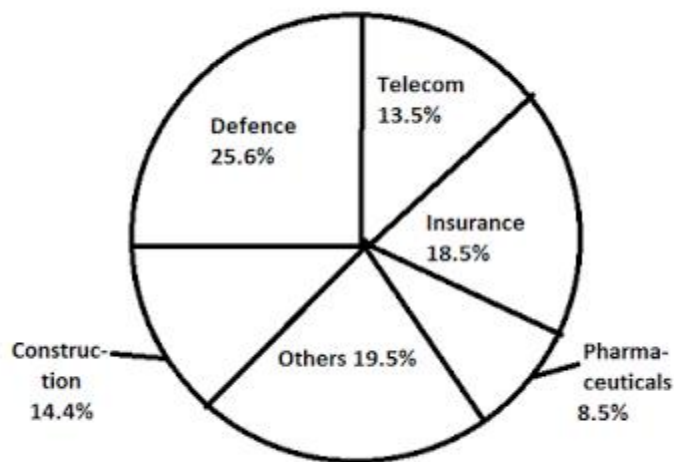
Direction (27-31): Study the following table and pie-chart carefully to answer the questions given below:

The table shows the state-wise foreign investments and the pie-chart shows the percentage distribution of investments in different sectors in 2014-2015 for each state.

State	Foreign investments (in Rs. crore)
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Rajasthan	1560
MP	1780
Gujarat	1970
TN	690
AP	730
Delhi	830
Maharashtra	1940



27) What is the total foreign investment in Other sectors by all the given states together? (in Rs. Crore)

- a) 1648.5
- b) 1752.5
- c) 1852.5
- d) 1438.5
- e) 1952.5

28) The foreign investment in Insurance sector in Rajasthan is approximately what percent of the foreign investment in Construction sector in Maharashtra?

- a) Other than the given options
- b) 101%
- c) 108%
- d) 107%
- e) 103%

29) The foreign investment in Pharmaceutical sector in AP is approximately what percent less than the foreign investment in Telecom sector in delhi?

- a) 47.6%
- b) 44.6%
- c) Other than the given options

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- d) 49.6%
- e) 45.8%

30) For which of the following pairs of states, the ratio of foreign investment in Defence sector is 52:23?

- a) Rajasthan, TN
- b) Maharashtra, TN
- c) MP, AP
- d) MP, TN
- e) Gujarat, Delhi

31) What is the ratio of the foreign investment in Defence sector in Gujarat to that in Construction and Insurance sector together in MP?

- a) 27246:27284
- b) 25216:29381
- c) 25316:28391
- d) 25216:29281
- e) Other than the given options

32) A dealer buys 30 dolls of which 8 are grade and the rest second grade , for Rs 4725. Find at what rate he must sell the first grade doll, so that if he sells the second grade doll at three - quarters of the price, he makes a profit of 40% on his outlay.

- a) Rs. 270
- b) Rs. 200
- c) Rs. 150
- d) Rs. 120
- e) Rs. 100

33) I buy 190 screws at 40 paise each from a wholesaler .I fix the selling price per screw to

give me a profit of 45% of the cost price and sell two-fifths of the screws at this price. I then lower the selling price per screw so that my profit on the remaining screws is only 20% of the cost price. Find my total profit if all the screw are sold .

- a) Rs. 20.40
- b) Rs. 20.40
- c) Rs. 21.60
- d) Rs. 22.60
- e) Rs. 23.50

34) A dealer sell two scooters, one at a profit of 15% and the other at a loss of 15%.The selling price of both the scooters is the same as Rs 9775. The gain or loss in the transaction is

- a) 2% loss
- b) 2% gain
- c) 2.25% loss
- d) Neither gain or loss
- e) None of these

35) Ravi can do a work in 6 days and Rahim can do the same work in 5 days.The contract for the work is Rs. 220. How much shall B get if both of them work together?

- a) Rs. 270
- b) Rs. 200
- c) Rs. 150
- d) Rs. 120

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e) Rs. 100

d) 50 years

e) 55 years

36) A man can do a work in 10 days. With the help of a boy he can do the same work in 6 days. If they get Rs. 50 for the work, what is the share of the boy?

a) Rs. 27

b) Rs. 20

c) Rs. 15

d) Rs. 12

e) Rs. 30

39) The average weight of 4 men is increased by 3 kg when one of them who weighs 120 kg is replaced by another man. What is the weight of the new man?

a) 130 kg

b) 132 kg

c) 135 kg

d) 138 kg

e) 140 kg

37) A, B and C can do a work in 6, 8 and 12 days respectively. Doing that work together they get an amount of Rs 1350. What is the share of B in that amount?

a) Rs. 270

b) Rs. 200

c) Rs. 450

d) Rs. 320

e) Rs. 400

40) P and Q start a business by investing 5,000 and 10,000 respectively . Find the ratio of their profit after 2 years ?

a) 2:3

b) 3:4

c) 1:2

d) 4:5

e) 5:6

38) The average age of 30 boys of a class is equal to 14 yrs. When the age of the class teacher is included the average becomes 15 yrs. Find the age of the class teacher.

a) 45 years

b) 40 years

c) 48 years

41) P and Q jointly started a business . The investments of P is equal to 3 times the investment of Q . Find the share of P in annual profit of 10,400.

a) 7500

b) 7600

c) 7800

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d) 8000

e) 8200

42) P and Q invested 24000 and 8000 for a period of 2 years . After 2 years , they earned 36000 . What will be the shares of P and Q out of this earning ?

a) 9000

b) 8000

c) 6000

d) 10000

e) 12000

43) A man can row upstream at 10 km/hr and downstream at 16 km/hr. Find the man's rate in still water and the rate of the current.

a) 3km/hr.

b) 5km/hr.

c) 8km/hr.

d) 9km/hr.

e) None of these

44) A man swims downstream 30 km and upstream 18 km, taking 3 hrs each time. What is the velocity of current?

a) 3km/hr.

b) 5km/hr.

c) 2km/hr.

d) 9km/hr.

e) None of these

45) A man row 6 km/hr in still water. When the river is running at 1.2 km/hr, it takes him 1 hr to row to place and back. How far is the place?

a). 2.88 km

b) 2.78 km

c) 2.5 km

d) 2 km

e) 1.55 km

46) In what time will Rs 390625 amount to Rs 456976 at 4% compound interest?

a) 1 years

b) 3 years

c) 4 years

d) 5 years

e) None of these

47) A sum of money placed at compound interest doubles itself in 4 yrs. In how many years will it amount to eight times itself ?

a) 12 years

b) 30 years

c) 44 years

d) 50 years

e). None of these

48) Find the least number of complete years in which a sum of money at 20% CI will be more than doubled.

- a) 1 years
- b) 3 years
- c) 4 years
- d) 5 years
- e) None of these

49) A bank offers 5% compound interest calculated on half-yearly basis. A customer deposits Rs. 1600 each on 1st January and 1st July of a year. At the end of the year, the amount he would have gained by way of interest is?

- a) 121
- b) 125
- c) 128
- d) 130
- e) 132

50) In a mixture of milk and water 270 l, there is milk and water in ratio 7:5. How much water is added to get ratio 9:5 finally.

- a) 20
- b) 25
- c) 28
- d) 35

e) 55

Reasoning

Directions (51-56): Study the following information carefully and answer the questions given below:

There are eight persons viz, A, B, C, D, E, F, H and J are sitting around a circle. Five of them are facing towards the centre. They read different newspapers viz, Hindustan Times (H.T), The Indian Express, The Hindu, The Economic Times, Navbharat Times, Washington Post, The Herald and The Dawn, but not necessarily in the same order. D is facing away from the centre but reads neither 'The Hindu' nor 'The Indian Express.' The one who reads The Washington post sits exactly between F and B. C is on the immediate right of H, who is not facing away from the centre. The one who reads The Indian Express is not the neighbour of B. The one who reads The Economic Times is on the immediate right of C. There are three persons between H and B. E sits second to the left of D and he reads The Indian Express. F is an immediate neighbour of both C and the one who reads The Washington Post. The Economics Times is read by either H or B. The one who read 'The Herald' is facing towards the centre. D sits on the immediate right of the one who read Navbharat Times. The one who reads The Dawn sits exactly between J and the one who reads The Hindu. A does not read The Washington Post. The one who is on the immediate right of H read the Hindu and is not facing the centre.

51) Which of the following papers is read by the one who sits on the immediate right of J?

- a) The Hindu
- b) The Herald
- c) The Dawn

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- d) Navbharat Times
- e) The Economic Times

52) Which of the following is matched correctly?

- a) A- Hindustan Times
- b). H- The Dawn
- c) C- The Economic Times
- d) B- The Herald
- e) E- The Hindu

53) Which of the following groups is facing away from the centre?

- a) A, B, D
- b) A, C, D
- c) E, A, D
- d) J, C, D
- e) H, D, B

54) If D is related to A and in the same way H is related to C in a certain way, then F is related to

- a) J
- b) C
- c) None
- d) A
- e) B

55) How many persons sit between the one who reads The Dawn and the one who reads Navbharat Times?

- a) Three
- b) Two
- c) One
- d) None
- e) Other than the given options

56) Who among the following reads The Dawn?

- a) A
- b) H
- c) F
- d) B

- e) E

Directions (57-63): Study the following information carefully and answer the questions given below:

Eight friends Prem, Queen, Rajan, Sooraj, Taksh, Vaani, Waqar and Yousuf are sitting around a square table. Out of eight, four persons are sitting at the corners of the table and other four are sitting at the mid - points of each side of the table. Persons at the corners are facing the center while the persons at the mid - points of side are facing outside. Sooraj is third to the right of Prem.

Prem is facing the center. Yousuf is not sitting beside Prem or Sooraj. Taksh is third to the right of

Rajan. Rajan is not sitting at the mid - point of any side of the table. Rajan is also not beside Yousuf. There is only one person between Prem and Vaani. Queen is not sitting beside Vaani.

57) If all the persons are made to sit in alphabetical order in clockwise direction starting from Prem, then the position of how many persons remains the same (Excluding Prem)?

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

58) Which among the following is true regarding Yousuf?

- a) Taksh is not sitting beside Yousuf.
- b) Yousuf is sitting at the mid - point of a side.
- c) Rajan is second to the left of Yousuf.
- d) Prem and Vaani are beside Yousuf
- e) None of The Above

59) Who is 4th to the left of Vaani?

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- a) Yousuf
- b) Rajan
- c) Taksh
- d) Queen
- e) None of The Above

60) What is the position of Queen in respect of Rajan?

- a) Immediate Left
- b) Second to the Left
- c) Third to the Left
- d) Third to the Right
- e) Immediate Right

61) Four out of following five are some how same and therefore they form a group. Which one of the following does not come into this group?

- a) Yousuf
- b) Waqar
- c) Vaani
- d) Rajan
- e) Prem

62) Who is third to the right of Waqar?

- a) Rajan
- b) Sooraj
- c) Queen
- d) Yousuf
- e) Can Not Be Determined

63) How many people are there between Taksh and Queen?

- a) 1
- b) 2
- c) 3
- d) 4
- e) None

Directions (64-68): Study the following information carefully and answer the questions given below:

Ten film stars from Tollywood are sitting in two parallel rows containing five persons each in dining hall. In row 1, Venkatesh, Nagarjuna, Bala Krishna, Jagapathi Babu and Chiranjivi are sitting and all of them are facing south.

In row 2, N.T.R, Pavan Kalyan, Mahesh Babu, Allu Arjun and Ram Charan are sitting and all of them are facing north. In the given seating arrangement, each member seated in a row faces another member of the other row.

Moreover, each of them going to different countries for shooting – Switzerland, USA, Netherlands, Canada, Germany, AUSTRALIA, Dubai, Egypt, Italy and Turkey but not necessarily in the same order.

There are only two persons sitting between the person going to Switzerland, who sits at an extreme end, and Chiranjivi. N.T.R, who sits in the middle of the row, is not an immediate neighbour of Pavan Kalyan, who is not going to Turkey. Ram Charan is sitting at an extreme end. Chiranjivi, is going to German, sits on the immediate right of the person going to USA and faces the immediate neighbour of Pavan Kalyan. Nagarjuna is not sitting at the extreme left end. N.T.R is not going to Italy.

There is only one person between Bala Krishna and Jagapathi Babu, who is going to Switzerland. Allu Arjun, who is going to AUSTRALIA, is an immediate neighbour of the person going to Turkey and does not face the person going to Netherlands. Mahesh Babu, who is going to Canada, is an immediate neighbour of the person going to Italy, who in turn faces the immediate neighbour of the person going to Germany. There are two persons between the person going to Dubai and Netherlands.



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Nagarjuna is not going to Dubai. Ram Charan is not going to Egypt.

64) Venkatesh going to which of the following countries?

- a) Egypt
- b) Dubai
- c) Netherlands
- d) None of these
- e) can't be determined

65) Who is going to Egypt?

- a) Mahesh Babu
- b) Nagarjuna
- c) Ram Charan
- d) N.T.R
- e) can't be determined

66) 'Switzerland' is related to 'Dubai' in a certain way, based on their seating positions. Then Turkey is related to whom, following the same seating positions?

- a) Egypt
- b) Italy
- c) USA
- d) AUSTRALIA
- e) Canada

67) Four of the following five are alike in a certain way based on their seating positions and so form a group. Which of the following is different from the group?

- a) Germany
- b) Dubai
- c) Turkey
- d) Canada
- e) AUSTRALIA

68) Which of the following statements is/are definitely false?

- a) Nagarjuna is going to Netherlands.

b) There are two persons sitting between the person going to AUSTRALIA and the person going to Italy.

c) The person going to USA faces the person going to Egypt.

d) The person who is going to Italy sits opposite the person going to Switzerland.

e) All are true

Directions (69-73): Study the following information carefully and answer the questions given below:

P, Q, R, S, T, U, V and W are sitting in a straight line equidistant from each other (but not necessarily in the same order). Some of them are facing south while some are facing north. P faces north. Only two people sit to the right of P. Q sits third to the left of P.

Only one person sits between Q and U. U sits to the immediate right of T. Only one person sits between T and W. Both the immediate neighbors of Q face the same direction. R sits third to the left of U. Q faces the opposite direction as P. V does not sit at any of the extremes ends of the line. S faces the same direction as T. Both V and R face the opposite direction of W.

69) How many persons in the given arrangement are facing North?

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

70) Four of the following five are alike in a certain way, and so form a group. Which of the following does not belong to the group?

- a) T, U
- b) W, V
- c) Q, P

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- d) Q, V
- e) S, R

71) What is the position of U with respect to W?

- a) Second to the left
- b) Third to the right
- c) Third to the left
- d) Fifth to the right
- e) Second to the right

72) Who among the following sits exactly between W and T?

- a) Q
- b) V
- c) U
- d) T
- e) R

73) Who is sitting SECOND to the right of Q?

- a) W
- b) S
- c) U
- d) T
- e) None of these

Directions (74–78): Each of the questions below consists of a question and three Statements numbered I, II and III given below it. You have to study the questions and all the three statements are sufficient to answer the questions.

74) What is the speed of the train 'A' ?

- (I) Train A crosses 200 metres long train B running in opposite direction in 20 seconds.
 - (II) Speed of train B is 60 Kmph.
 - (III) Length of train A is twice that of train B.
- a) I and II only
 - b) I and III only
 - c) II and III only

- d) All I, II and III
- e) None of these

75) What is the area of the isosceles triangle?

- (I) Perimeter of the triangle is 14 metres.
 - (II) Base of the triangle is 14 metres.
 - (III) Height of the triangle is 5 metres.
- a) I and II only
 - b) II and III only
 - c) I and II only or II and III only
 - d) I and III only
 - e) None of these

76) Who earns more among M, N, P, Q and R ?

- (I) M earns less than P but not less than R.
 - (II) Q earns more than M but not equal to N.
 - (III) N earns more than M and R.
- a) Question cannot be answered even with information in all three statements.
 - b) I and II only
 - c) Only I and II or only I and III
 - d) Only I and III
 - e) None of these

77) What is the price of 1 dozen oranges ?

- (I) Price of 2 dozen oranges and 1 dozen banana are Rs 110.
 - (II) Price of 3 dozen apples and 1 dozen banana are Rs .170.
 - (III) Price of 1 dozen oranges and 1 dozen banana are Rs 95
- a) Only I and II or only I and III
 - b) Only I and III or Only II and III
 - c) Only I and II or only II and III
 - d) All the three statements I, II and III are necessary for answering the question.

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e) None of these

78) The cost of Carpeting a rectangular hall will be

(I) Perimeter of a rectangular is 60 m.
(II) Angle between width and Hypotenuse is 60.
(III) The cost of preparing the surface floor is Rs. 125 per square metre.

- a) Only I and II
- b) Only II and III
- c) Only I and III or Only II and III
- d) All the three statements I, II and III are necessary for answering the question.

e) None of these

Directions (79-83): In each questions below, there are three statements followed by four conclusions numbered I, II, III and IV. You have to take the given statements to be true even if they seem to be at variable with commonly known facts and then decide which of the given conclusions logically follow(s) from the given statements.

79)

Statements:

Some keys are lock.
All keys are doors.
No windows are door.

Conclusions:

- I. All doors are key.
- II. No windows are keys.
- III. Some locks are not windows.
- IV. Some locks are windows.

- a) I and either III or IV follow
- b) Only I and II follow
- c) Only II and III follow

- d) II and either III or IV follow
- e) Either III or IV follows

80)

Statements:

Some venues are matches.
No match is a nest.
All nests are regions.

Conclusions:

- I. Some region are nests.
- II. Some region are not matches.
- III. Some venues are not nests.
- IV. Some nest are not matches.

- a) Only I, III and IV follow
- b) Only I, II and IV follow
- c) Only I, II and III follow
- d) Only II, III and IV follow
- e) All follow.

81)

Statements:

No press is a photo.
All blocks are press.
Some photos are scholars.

Conclusions:

- I. No books are photos.
- II. Some scholars are photos.
- III. Some blocks are photos.
- IV. Some scholars are not blocks.

- a) Only I, III and IV follow
- b) Only I, III and IV follow
- c) Only I, II and III follow
- d) Only II and IV follow
- e) Only II, IV and either I or III follow

82)

Statements:

All inlets are cannels.
No channels are bays.

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Some gulfs are bays.

Conclusions:

- I. Some gulfs are not inlets.
- II. Some gulfs are not channels.
- III. Some channels are not gulfs.
- IV. No inlets is a bay.

- a) Only I, III and IV follow
- b) Only II, III and IV follow
- c) Only II and IV follow
- d) Only III and II follow
- e) Only I, II and IV follow

83)

Statements:

Directions (84-88): Study the following information to answer the questions given below it. A number sorting machine, when given an input of numbers, rearranges the numbers in a particular manner step by step as indicated below - till all the numbers are arranged in a particular order.

Input	past	back	32	47	19	own	fear	25
Step I	19	past	back	32	47	own	fear	25
Step II	19	past	25	back	32	47	own	fear
Step III	19	past	25	own	back	32	47	fear
Step IV	19	Past	25	own	32	back	47	fear
Step V	19	Past	25	own	32	fear	Back	47
Step VI	19	past	25	own	32	fear	47	Back

Step VI is the last step.

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

84) Which of the following will be step VI?

(a)	21	Win	39	tyre	46	file	Case	51
(b)	21	Win	39	tyre	46	file	51	case
(c)	21	Win	39	tyre	file	46	51	case
(d)	21	Win	39	tyre	46	case	file	51
(e)	There will be no such step							

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85) Step II of an input is 27 ultra open case 45 35 now 12.

Which of the following is definitely the input?

- a) ultra open 27 case 45 35 now 12
- b) open case ultra 27 45 35 now 12
- c) open case 27 45 35 now 12 ultra
- d) Can Not Be Determined
- e) None of The Above

86) Input -

case over 12 36 49 long ago 42.

Which of the following steps will be the last but one?

- a) V
- b) VI
- c) VII

d) VIII

e) None of The Above

87) Input -

judge retire home 62 53 41 34 task.

How many steps will be required to complete the arrangement?

- a) 6
- b) 5
- c) 4
- d) 7
- e) None of The Above

88) Step III of an input

is 17 vice 22 85 and car oil 42.

How many more steps will be required to complete the rearrangement?

- a) 3
- b) 4
- c) 5
- d) 6
- e) None of The Above

89) If in a certain language "NIL" is written as "MOHJKM",

then how will "BOND" be written in that language?

- a) ACNPOMCE
- b) ANCPMOCE
- c) ACNPMOCE
- d) ACNPMEOC
- e) None of The Above

90) If in a certain language, "TOP" is written as "OQNPSU",

then how will "SUN" be coded in that language?

- a) MOVTRT
- b) MOTVRT
- c) MOVTTR
- d) MOVRTT
- e) None of The Above

91) If "PKROK" is coded as 72962 and KRRPK as "29972",

then how can "QLSAZ" be coded?

- a) 45716
- b) 74315
- c) 91523
- d) 51430
- e) None of The Above

92) If in a certain code language "SIMILAR" is written as "IZORNRH",

then how will "BECTOR" be written in that language?

- a) ILGXVY
- b) ILGXVY

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- c) ILXGYV
- d) ILXYVG
- e) None of The Above

93) In a certain code language "TIGER" is written as "2097518", then how will "TENDULKAR" be written in that language?

- a) 205144212156212
- b) 205144221111182
- c) 205144211211118
- d) 205144211532522
- e) None of The Above

94) Deepika tells Shraddha "Your mother's father's own son is the husband of my sister." How is Deepika related to Shraddha?

- a) Sister-in-law
- b) Cousin
- c) Aunt
- d) Data inadequate
- e) None of these

95) D is A's son. C is the mother of P and wife of D. How is A related to C?

- a) Father
- b) Uncle
- c) Father-in-law
- d) Data inadequate
- e) None of these

96) Pointing to the lady in the photograph, Mrinalini said, "Her son's father is the only son-in-law of my mother". How is Mrinalini related to the lady.

- a) Sister
- b) Mother
- c) Cousin
- d) Aunt
- e) None of these

97) The average age of a man and his son is 48 years. The ratio of their age is 5 : 3 respectively .What is the son's age ?

- a) 36 years
- b) 34 years
- c) 25 years
- d) 18 years
- e) None of these

98) The ratio of ages of Namrata and Divya is 4 : 3 .The sum of their ages is 28 years.The ratio of their ages after 4 years will be :

- a) 3: 4
- b) 5 : 4
- c) 5 : 6
- d) 6 :5
- e) None of these

99) Ten years ago, the age of Divya was half of the age os namrata .If the ratio of present ages of both is 3 :4 the sum of their present ages is :

- a) 35 years
- b) 30 years
- c) 25 years
- d) 18 years
- e) None of these

100) Y is in the East of X which is in the North of Z. If P is in the South of Z, then in which direction of Y, is P?

- a) North
- b) South
- c) South-East
- d) None of these
- e) None of these

English

Directions (101-105): Read the passage carefully and answer the questions given below it.

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The government has made two crucial clarifications on the e-auction process for captive coal blocks in order to make them more attractive to potential bidders. According to the changes introduced by the coal ministry, existing or upcoming power plants that don't have power purchase agreements (PPAs) with buyers of electricity will also be eligible to bid for the coal blocks. Also, the reserve price of ₹ 100/tonne payable by the successful bidder will be included in the energy charge, which means that fuel cost that will be passed through to consumers will include reserve price along with the actual rate of coal at which the bid has been won. This could translate into bidders being willing to bid more aggressively and still manage to run a profitable business. The minutes of meeting released by the ministry said "power projects which do not have PPAs today but would be entering into PPAs (Case I bidding) in future also need to be covered explicitly." "Generators without PPAs have been in dilemma for some time. This was because states are unlikely to enter into PPAs with generators that do not have coal linkage and Coal India would refuse to give linkage to generators without PPAs. We have tried to correct the situation by allowing such generators to enter into the auction fray. Apart from the scarcity of coal that has led to more than 15,000 MW of generation capacity not being able to sign coal linkage pact with Coal India, the situation has been exacerbated by the loss making state owned distribution companies not shying away from signing pacts with power producers for long-term supply of power because of financial health. While there will not be any deadline in place for such capacity to enter into PPA's they will not be allowed to sell more than 15% of its capacity in the open market. These bidders will also have to pay an

additional reserve price for the quantum of coal used for power sold in the merchant market, over and above the reserve price for other generators with long-term PPAs which is ₹ 100/tonne. The clarification significantly invigorates the auction as there's considerable generation capacity without fully covered fuel supply, and generators can create an additional profit margin between the escalation offered in Case I bidding documents and the actual cost inflation. As regards the reserve price (which is to be paid to the state government) being a pass through. For merchant power, the reserve price is higher; the new proposal will make sure that there are no extraordinary gains from open market sales. This is a safety feature as bidders would factor in the extra reserve price in their quoted prices."

101) In the given passage for whom the reserve price is considered to be higher?

- a) For government
- b) For coal mine owners
- c) For merchants
- d) For buyers and sellers
- e) For policy makers

102) According to the passage generators can create which type of margin?

- (A) Negotiated loss margin**
- (B) Additional profit margin**
- (C) Substantial balancing margin**

- a) only (A)
- b) only (B)
- c) only (C)
- d) only (B) and (C)
- e) All (B) and (C)

103) Which of the following has been considered eligible to bid for the coal blocks after the changes introduced by the ministry?

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- a) The upcoming power plants that have PPAs with buyers of electricity.
- b) The existing power plants that do have power purchase agreements.
- c) The upcoming power plants that have PPAs with sellers of electricity.
- d) The existing or upcoming power plants that don't have PPAs.
- e) None of these

104) What step(s) would translate into bidder being willing to bid more aggressively?

(A) The reserve price of ? 100/ tonne payable by the successful bidder to be included in the energy charge.

(B) The fuel cost passed to consumers will include reserve price and the actual rate of coal.

(C) The actual rate of coal will negotiate with profit maximisation.

- a) only
- b) only (C)
- c) only (A) and (C)
- d) only (B) and (C)
- e) only (A) and (B)

105) What led to more than fifteen thousand MW of generation capacity inability to sign coal linkage pact with Coal India?

- a) Lack of workers
- b) Lack of mines
- c) Lack of buyers
- d) Lack of trade
- e) Lack of coal

Directions (106–115): Read the following passage carefully and answer the questions given below it.

The last 10 years have seen an extraordinary quantum of interest and debate on the benefits and dangers of modernisation of India's retail sector, though never has this debate been

shriller and more contentious than what has been seen in the past.

Unfortunately, no discussion has taken place even once in these years on the importance of the retail sector to India (not only just the 15+ million independent retailers and street hawkers), the need to make the producer to the consumer distribution system more efficient and less wasteful, and how to make these millions of independent retailers not only relevant for tomorrow but actually increase their numbers and enhance the economic and social vibrancy of their vocation. Sadly, much more attention has been misguidedly focused on just one single dimension of modernisation of the distribution and retail infrastructure namely "foreign direct investment". And most of the rhetoric of recent years has largely been on emotional and sometimes incorrect factual positions.

Private consumption has long been the larger constituent of India's economy and even today, it accounts for almost 60% of India's GDP. Of this private consumption, more than 60% is what would constitute what we typically route through retail channels.

The fact is India's retail story is not a zero sum game i.e. growth of new, modern, and sometimes larger in scale retail businesses has to come at the expense of decimation of the traditional, independent retail business owners. Even at a real growth of 6% per year and inflation of about 5% for the next 15 years, India's nominal GDP will be about \$8,000 billion in 2026. The size of India's retail market would have also moved up from about \$500 billion in 2011 to about \$2,500 billion in 2026.

Traditional retail currently accounts for as much as about \$475 billion of this market. Even if modern retail attracts as much as \$150 billion in fresh direct and indirect investment (from within



India and overseas) over the next 15 years (i.e., \$10 billion per year), the size of modern retail business in India is not likely to cross \$300-350 billion by 2026, implying that traditional retail will account for as much as \$2,150-2,200 billion in revenues (or more than four times of their current size).

Accounting for inflation and some increase in productivity of traditional retailers, it can be very confidently assumed that in the most optimistic of all scenarios as far as investment in modern retail is concerned, the numbers of independent retail outlets in India will more than double by 2026 rather than show any decline whatsoever. If these facts are understood, then what should India be doing to facilitate this retail consumption taking place in a planned, organised manner rather than seeing millions of illegal retail establishments sprouting all over? First, our politicians, our bureaucrats, and our urban planners must realise the need and relevance of providing for retail spaces in an integrated, holistic planned way. At the very least, about 10-12 square feet of retail space is needed for every urban inhabitant. Urban agglomerations such as NCR, Greater Mumbai, and Kolkata therefore require at least 200 million square feet each of legalised retail space.

106) Which of the following is/ are the major concern for India's retail sector ?

- a) More attention is being paid to the possible role of FDI.
- b) No efforts are made by the authority to enhance efficiency of retail distribution.
- c) The retailers are not regulated.
- d) The retail sector in India is a potential retail market for employment prospects.
- e) Both 1) and 2)

107) What has/have been suggested by the author? Answer in the context of the passage.

- (A) FDI should allowed only in a few restricted sectors.
- (B) New players should not be allowed to invest funds.
- (C) There should be proper planning for the developing of retail sectors.

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

108) What does the author mean by 'zero sum gain'?

- a) Gain of branded retailers at the cost of traditional retailers.
- b) Loss of some best retailers at the gain of others.
- c) The number of retailers remain the same over the period of time.
- d) Both 1 and 2
- e) All 1, 2 and 3

109) Which of the following is not contextual according to the passage ?

- a) The modern retail will grow substantially but not relatively.
- b) Traditional retailer will evaporate in the course of time.
- c) Traditional retailer will grow relatively.
- d) Inflation will be a factor to attribute growth
- e) Other than given options

110) Choose the word which is MOST OPPOSITE in meaning to the word 'decimation' as used in the passage?

- a) Annihilation
- b) Devastation
- c) Catastrophe

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- d) Holocaust
- e) Establishment

111) Which of the following is true according to the passage ?

- a) Retail market is the backbone of distribution system of the country.
- b) Modernisation of India's retail sector is not that pious.
- c) Retail management is required to work with wholesale market as well as Internet sales.
- d) Independent retailer in the future market is a major concern.
- e) Other than given options

112) Choose the word which is MOST OPPOSITE in meaning of the word 'sprouting' as used in the passage?

- a) Germinating
- b) Burgeoning
- c) Proliferating
- d) Expanding
- e) Subsiding

113) What is the central idea of the given passage ?

- a) Impact of FDI on India's retail sector.
- b) Growth in India's GDP.
- c) Declining trend of traditional retail sector.
- d) Issues related to management of modernisation of India's retail sector.
- e) Other than given options

114) Give a suitable title to the above passage ?

- a) Retailing in India
- b) Retail sector in India and growing e-commerce challenge
- c) Retail sector in India growing at phenomenal pace
- d) India's retail sector: Missing the wood for the trees

- e) FDI in retail sector in India

115) Choose the word which is MOST SIMILAR in meaning to the word 'contentious' as used in the passage?

- a) Submissive
- b) Complaisant
- c) Netted
- d) Controversial
- e) Agreeable

Directions (116-125): In the following exercise, a sentence is divided into four parts, i.e. A, B, C and D. Find out which part of the sentence contains an error. If the sentence has no error, then select your answer as E

Spot the grammatical errors:

116) (A) The government contended/(B) that she could not be/(C) commissioned as she has/(D) rejected the offer earlier./(E) No Error

117) (A) The plane that crashed in Colombia/(B) was out of fuel, had no electric/(C) power and was preparing for an emergency/(D) landing when it crashed./(E) No error

118) (A) The astronomical phenomena of Aurora Borealis/(B), commonly known as Northern Lights/(C), is caused when the Sun's energy/(D) produce a 'Solar Storm', spreading charged particles across space./(E) No error

119) (A) Dictionary has named 'Xenophobia' as Word/(B) of the Year for 2016. Xenophobia refers/(C) to the fear or hatred for foreigners/(D), people from different cultures or strangers/(E). No error

120) (A) To the wake of demonetisation, a

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Noida-based/(B) startup named Tailmill is making home/ (C) deliveries of cash up to Rs. 1,000 per day/(D) per customer in valid currency notes./ (E) No error

121) (A) This comes amid an ongoing territorial/(B) dispute among Israel and Palestine which started in/(C) 1948. Palestine has been a non-member/(D) 'Observer' state in the UN since 2012./ (E) No error

122) (A) A study on Mumbai parents have revealed nearly 75% /(B) mothers subject their children to helicopter-style parenting/(C), characterised by tendencies of overseeing their/(D) child's life and rescuing them at the first sight of trouble./ (E) No error

123) (A) Paragraph development continues with an /(B) expression of the rationale or the explanation that the/(C) writer gives for how the reader should/(D) interpret the informations presented in the idea statement or topic sentence of the paragraph./ (E) No error

124) (A) The government said NGOs and/(B) voluntary organisations (VOs) need to /(C) register itself with NITI Aayog to receive/(D) grant-in-aid from the Centre./ (E) No error

125) (A) Sambhaji Brigade, one of the group/(B) organising Maratha protests across/(C) Maharashtra, is set to become/(D) a political party, reports said./ (E) No error

Direction (126-130): In each of the following sentences there are two blank spaces. Below each sentence there are five pairs denoted by numbers **1), 2), 3), 4)** and **5)**. Find out which pair of words can be filled up in the blanks in the sentence in the

same sequence to make it meaningfully complete.

126) The significant progress _____ can be seen in terms of growth _____ to weaker section of the society during the next few years.

- a) urged, taking
- b) drive, maintaining
- c) made, percolating
- d) shaped, creating
- e) constrained, rambling

127) Infosys has taken great _____ during the past seven years to become _____ in its operations.

- a) foot step, fleeting
- b) strides, sustainable
- c) measure, unendurable
- d) get along, brief
- e) step, tiring

128) In the four decades since its _____ the Internet has driven _____ change.

- a) inception, dramatic
- b) conclusion, exciting
- c) completion, dramatic
- d) result, sudden
- e) outgrowth, impressive

129) They are _____ back by a _____ of education about about how to use the Web and by the high cost of Internet access and technology solutions.

- a) defer, profusion
- b) keep, surplus
- c) check, expansion
- d) suppress, paucity
- e) held, lack

130) An EPIC or Aadhaar document will now be enough for any individual to obtain PAN card as

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the Income Tax Department has relaxed the _____ procedure of having multiple documents to _____ one's own identity.

- a) cumbersome, disclaim
- b) heavy, theorise
- c) ponderous, refute
- d) cumbersome, prove
- e) easy, justify

Directions (131-135): Read the following passage carefully and answer the questions given below it.

Italian super - luxury sports car manufacturer Lamborghini has spread its wings in India. And it, has just opened a dealership in Bengaluru, the IT (information technology). capital of the country,

It has already a dealership in Mumbai, the financial capital, and Delhi, the political capital. At a price tag of over Rs. 1 Crore. Who will buy a Lamborghini car? Rather, what gives the Italian car maker the confidence to not only drive into India but also expand its presence? The choice of its location for dealership gives a clue or two to its game plan, and also an insight into its prospective customer profile. While dealership in Mumbai and Delhi are understandable considering the wealth and power that reside in these two metros, the choice of Bengaluru to locate its new dealership indicates that the Italian company is betting big on the neo rich who have sprouted in big numbers in the wake of an unprecedented growth experienced by this city. If super - luxury brand like Lamborghini is sensing an unfolding big opportunity in a New India, other traditional global luxury car makers have turned very ambitious with new launches. Despite high import duty barriers, global luxury car makers continue to believe that roll out new models and ramp up dealership in a bid to sustain the appetite of India's super rich for

expensive cars is only likely to grow. After the launch of BMW M5, priced at Rs. 1.35 crore its German rival Mercedes - Benz launched next - generation C- Class, priced at Rs. 40.9 lakh in New Delhi. The C- Class is one of the most successful products of Merc in India. It has so far sold over 20,000 units C- class in India. Till date, Lamborghini had sold around 94 sports cars in the country. It said the high import duty would impact the company's sales in India, and 2014 might see a lower volume. In 2013, it sold around 22 super - luxury sports cars in India. "The import duty in India is higher than many other countries. We want to sell more cars in the country but the import duty in India is high as much as 167 percent. This huge import tax will impact the sales of the super cars in the country," said Automobili Lamborghini President and CEO Stephan Winkelmann. Apart from the high import duty, the late launch of its new model Huracan into India market was another reason for lower sales this year. The company expects to improve the sales next year. Lamborghini is also considering the possibility of launching its SUV in India by 2018. In April 2012 the company showcased its concept SUV at the Beijing Auto Show.

131) Which of the following rationale explains the curtailing of Lamborghini car trade in India?

- (A) The price figure ranges over one crore.
 - (B) Lofty import duty
 - (C) Delayed launch of its new model
- a) Only A
 - b) Only B
 - c) Only C and A
 - d) Only B and C
 - e) Only A and B

132) What kind of strategy is mentioned in the

passage about the car selling geographical factor?

- a) Launching a new model every six months will give lots of choices to buyers.
- b) Competitive environment leads to better designing of Lamborghini cars.
- c) Seeking out well - heeled people who have enormously emerged in Bengaluru.
- d) Mumbai and Delhi are having many rich people, so it was easy for the company to launch their car first here.
- e) None of these

133) Which of the following statements is true according to the given passage?

- a) Lamborghini is the only company to flourish better in India when it comes to car sales.
- b) The new model Huracan's predecessor is Mercedes' C- class
- c) Lamborghini proliferates augmentation in India.
- d) Mercedes- Benz is an adherent of Lamborghini.
- e) None of these

134). According to the passage what makes the company think that their sales will grow in the country?

- (A) The ability of afford high import duties by Indians who are living in rich metropolitan areas.
 - (B) The inclination of moneyed people towards sports car will potentially grow.
 - (C) The luxury car is a stipulated requirement or thriving people as it has been seen in Delhi, Mumbai and Bengaluru.
- a) Only A
 - b) Only B
 - c) Only C and A
 - d) Only B and C
 - e) Only A and B

135) What can be concluded from the passage about the buyers and sellers of Lamborghini cars?

- (A) People in India have a good preference and knowledge about the Lamborghini car.
 - (B) Buyers are afar of sellers in India, therefore new metropolitan city was opted to launch a new dealership.
 - (C) Regarding car sales competitive environment is ubiquitous in India.
- a) Only A
 - b) Only B
 - c) Only C
 - d) Only B and C
 - e) Only A and B

Directions (136-140): Given below is a sentence marked (A), after which there are five more sentences marked, (B),(C),(D),(E) and (F).these five sentences are not in their proper sequence. Rearrange them so as to form a meaningful paragraph with (A) as the first sentence; then answer the questions given below them.

- (A) when I reached the station, the train had already arrived
- (B) One came running up to me and with his help.I began pilling up my luggage on the entrance of the compartment.
- (C) There were five minutes left for its departure.
- (D) However, I made an effort to remain cool and called out to a coolie.
- (E) As I carried up the last item, the train began to crawl out of the station.
- (F) This made me a bit nervous as I had a lot of luggage with me.

136) Which sentence should come third in the passage?

- a) A
- b) C

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- c) F
- d) E
- e) G

137) Which sentence should come Second?

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

138) Which sentence should come Fifth?

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

139) Which sentence should come Fourth?

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

140) Which sentence should come last?

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

Directions (141-143) In the following the questions choose Synonyms the word which best expresses the meaning of the given word.

**141)
CORPULENT**

- a) Lean
- b) Gaunt
- c) Emaciated

- d) Obese
- e) None of these

142)

BRIEF

- a) Limited
- b) Small
- c) Little
- d) Short
- e) None of these

143)

EMBEZZLE

- a) Misappropriate
- b) Balance
- c) Remunerate
- d) Clear
- e) None of these



Directions (144-145) In the following questions choose the Antonyms word which is the exact OPPOSITE of the given words.

144)

ENORMOUS

- a) Soft
- b) Average
- c) Tiny
- d) Weak
- e) None of these

145)

COMMISSIONED

- a) Started
- b) Closed
- c) Finished
- d) Terminated
- e) None of these

Directions (146-150): In the following passage there are blanks, each of which has been

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numbered.

These numbers are printed below the passage and against each, five words are suggested, one of which fills the blanks appropriately. Find out the appropriate word in each case.

There are some people who say that they would go on (1)_____ walks if only they could get someone to (2)_____ them. This is such a ridiculous (3)_____ that, the (4)_____ would burst (5)_____ laugh with the comment, "Fancy, wanting a companion for walk." The

146)

- a) night
- b) pleasant
- c) long
- d) delightful
- e) None of these

147)

- a) join
- b) accompany
- c) motivate
- d) inspire
- e) None of these

148)

- a) statement
- b) fact
- c) thing
- d) quote
- e) None of these

149)

- a) onlooker
- b) spectator
- c) audience
- d) listener
- e) None of these

150)

- a) out
- b) into
- c) in
- d) of
- e) None of these

Professional Knowledge

151. The number of tuples in a relation is called its_____. While the number of attributes in a relation is called it's _____

- a) Degree, cardinality
- b) Cardinality, Degree
- c) Rows, Columns
- d) Columns, Rows
- e) None of these

152) Which of the following is false for a query?

- a) It is an expression which on evaluation returns result from the DBMS.
- b) It is a command given to the DBMS.
- c) DBMS might support some kind of command to execute a query.
- d) Queries make the database useful.
- e) None of these

153) What are the valid responses of a RDBMS?

- a) Completion codes
- b) Messages

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- c) Result of the queries
- d) All of the above
- e) None of these

154) The GROUP BY clause is not:

- a) Used to combine, or group, rows with related values into elements of a smaller set of rows.
- b) Often used in conjunction with SQL aggregate functions.
- c) Used to preserve duplicate rows in a result set.
- d) Used to eliminate duplicate rows from a result set.
- e) None of these.

155) The parameter which gives probability of the transport layer itself spontaneously termination 2 a connection due to internal problem is called?

- a) Protection
- b) Resilience
- c) Option negotiable
- d) Transfer fund
- e) None of these

156) What is the valid host range the IP address 172.16.10.22 255.255.255.240 is a part of?

- a) 172.16.10.20 through 172.16.10.22
- b) 172.16.10.1 through 172.16.10.255

- c) 172.16.10.16 through 172.16.10.23
- d) 172.16.10.17 through 172.16.10.31
- e) 172.16.10.17 through 172.16.10.30

157) Which of the following are valid SQL language % elements?

- a) Colon
- b) Queries which retrieve data based on specific criteria.
- c) Expressions which can produce either scalar values or tables consisting of columns and rows of data.
- d) Statements which may have a persistent effect on schemas, and data, or which may control transactions, program flow, connections, sessions, or diagnostics.
- e) None of these

158) Which protocol working at the Transport layer provides a connectionless service between hosts?

- a) IP
- b) ARP
- c) TCP
- d) UDP
- e) None of these.

159) Which of the following categories of the data integrity RDBMS will enforce specific business rules:



- a) Entity integrity
- b) Domain integrity
- c) Referential integrity
- d) User- Defined integrity
- e) None of these

160) SQL is all but:

- a) SQL is an ANSI standard computer language
- b) SQL allows you to access a database.
- c) SQL allows you to execute queries against a database.
- d) SQL does not allow you to update records in a database.
- e) None of these.

161) Disk scheduling includes deciding

- a) Which should be accessed next.
- b) Order in Which disk access requests must be serviced.
- c) The physical location of the file.
- d) The logical location of the file.
- e) None of these.

162) Which among following scheduling algorithms give minimum average waiting time

- a) FCFS
- b) SJF

- c) Round robin
- d) On priority
- e) None of these

163) What is not true about COMMIT and ROLLBACK?

- a) Interact with areas such as transaction control and locking.
- b) COMMIT alone cannot make data permanent.
- c) Both terminate any open transaction and release any locks held on data.
- d) Both maintain consistency of database.
- e)None of these.



164) Which of the following is a function of e-mail system?

- a) Composition
- b) Transfer
- c) Reporting
- d) All of above
- e) None of these

165) Mobile computers and personal digital assistant (PDAs) are the examples of?

- a) Radio broadcasting
- b) Wireless network
- c) Geosynchronous

- d) LAN
- e) None of these

166) The XOR operator + is?

- a) Commutative
- b) Associative
- c) Distribute over AND operator
- d) (1) and (2)
- e) None of these

167) An Identifier in C?

- a) Is a name of thing such as variable and function
- b) Is made up of letters numerals and the underscore
- c) Can contain both uppercase and lowercase letters
- d) All of above
- e) None of these

168) Milestones are used to ?

- a) Know the cost of the project
- b) Know the status of the project
- c) Know the user expectation
- d) None of the above
- e) None of these

169) The average search time of hashing with linear probing will be less if the load factor?

- a) Is far less than one.
- b) Equals one
- c) Is far greater than one
- d) None of above
- e) None of these

170) Negative numbers can't be represented in ?

- a) Signed magnitude
- b) 1's complement form
- c) 2's complement form
- d) None of above
- e) None of these

171) Sending a file from your personal computer's primary memory or disk to another computer is called?

- a) Uploading
- b) Hang on
- c) Logging on
- d) Downloading
- e) None of these

172) The memory cell of a dynamic RAM is simpler and smaller than the memory cell of a RAM?



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- a) Volatile
- b) Semiconductor
- c) Static
- d) Bipolar
- e) None of above

173) The normal form that is not necessarily dependency preserving is

- a) 2NF
- b) 3NF
- c) BCNF
- d) 4NF
- e) None of these

174) Fifth normal form is concerned with

- a) Functional dependency
- b) Multivalued dependency
- c) Join dependency
- d) Domain key
- e) None of these

175) A _____ Does not have a distinguishing attribute if its own and mostly are dependent entities, which are part of some another entity.

- a) Weak entity
- b) Strong entity
- c) Non attributes entity

- d) Dependent entity
- e) None of these

176) _____ is the complex search criteria in the where clause.

- a) Sub string
- b) Drop table
- c) Predict
- d) Predicate
- e) None of these

177) The term module in the design phase refers to?

- a) Functions
- b) Procedures
- c) Sub programs
- d) All of the above
- e) None of these

178) Switch is a device of _____ Layer of OSI Model.

- a) 1077
- b) 1086
- c) Application Layer
- d) Session Layer
- e)None of these



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179) The number of binary trees with 3 nodes which when traversed in post order gives the sequence A, B, C is?

- a) 3
- b) 9
- c) 7
- d) 5
- e) None of these

180) Which database level is closest to the users?

- a) External
- b) Internal
- c) Physical
- d) Conceptual
- e) None of these

181) Which are two ways in Which entities can participate in a relationship?

- a) Passive and active
- b) Total and partial
- c) Simple and complex
- d) All of the above
- e) None of these

182) Which among these is incorrect for relations?

- (i) Degree-number of tuples
 - (ii) Relation-table
 - (iii) Tuple-row
 - (iv) Attribute-column
- a) Only (i)
 - b) (i) and (ii)
 - c) (i) and (iii)
 - d) (iii) and (iv)
 - e) None of these

183) Which of the following is used to define the structure of a relation, deleting relations and relating schemas?

- a) DML(Data Manipulation Language)
- b) DDL(Data Definition Language)
- c) Query
- d) Relational schema
- e) None of these

184) Which of the following is not true?

- a) External view: highest level of abstraction as seen by a user
- b) Conceptual view: sum total of Data base management system user's views
- c) Internal level: middle level of abstraction
- d) Internal level: how the data are physically stored.



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e) None of these.

185) Which of the following is true about WHERE clause?

- a) Does not include a comparison predicate
- b) No restriction on the number of rows
- c) Eliminates all rows from the result set where the comparison predicate does not evaluate to True
- d) The WHERE clause is applied after the group by clause.
- e) None of these

186) What protocol is used to find the hardware address of a local device?

- a) RARP
- b) ARP
- c) IP
- d) ICMP
- e) BOOTP

187) Establishing a virtual connection is functionally equivalent to?

- a) Connection as virtual memory
- b) Physically connecting a DTE and DCE
- c) Placing a telephone call prior to a conversation
- d) Placing a modem prior to a conversation

e) None of above

188) Which of the following is a variation of frequency division multiplexing (FDM)?

- a) Time division multiplexing (TDM)
- b) Pulse code multiplexing (PCM)
- c) Wavelength division multiplexing (WDM)
- d) None of above'
- e) All of these

189) The binary equivalent of the gray code 11100 is _____?

- a) 10111
- b) 00111
- c) 01011
- d) 10101
- e)None of these

190) Star topology is based on a central device that can be?

- a) HUB
- b) Switch
- c) Only (1)
- d) Both (1) and (2)
- e) None of these

191) Any program in C has access to three standard files?

- a) Standard input file, standard output file, standard error file
- b) Stdin, stdout, stderr
- c) All of above
- d) Key words, screen, stderr
- e) All of above

192) The index register in a digital computer is used for?

- a) Pointing to the stack address
- b) Indirect addressing
- c) Keeping track of number of times a loop is executed
- d) Address modification
- e) None of these

193) The HAVING clause:

- a) Includes a comparison predicate used to eliminate rows after the GROUP BY clause is applied to the result set
- b) It acts on the results of the GROUP BY clause
- c) Aggregate functions can be used in the HAVING clause predicate
- d) All of the above
- e) None of these

194) What are the functions of DCL?

- a) Handling the authorization aspects of data.
- b) Permitting the user to control who has access to see or manipulate data within the database.
- c) Both (1) and (2)
- d) (1) only
- e) None of these

195) Which of these are the activities done by RDBMS?

- a) Take note of authorizations
- b) Take note of constraints
- c) Update variables according to authorizations and constraints
- d) All of above
- e) None of these

196) Which of the following are the prosperities of entities?

- a) Groups
- b) Tables
- c) Attributes
- d) Switch boards
- e) None of these

197) _____ is preferred method for encoding data integrity.

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- a) Constraints
- b) Stored procedure
- c) Triggers
- d) Cursors
- e) None of these

- c) Query
- d) Relational schema
- e) None of these

Answer :

198) _____ data type can store unstructured data.

- a) RAW
- b) CHAR
- c) NUMERIC
- d) VARCHAR
- e) None of these

1) c)

$$7 \times 1 - 2 = 5$$

$$5 \times 2 - 3 = 7$$

$$7 \times 3 - 4 = 17$$

$$17 \times 4 - 5 = 63$$

$$63 \times 5 - 6 = 309$$

2) a)

$$50..50+(1^3+1) = 52$$

$$52+(2^3+1)=61.$$

$$61+(3^3+1)=89$$

$$89+(4^3+1)=154$$

$$154 + (5^3+1) = 280$$

**BANK
EXAMS**

199) A DBMS responds to commands given by

- a) General purpose application programs
- b) Custom developed application programs
- c) Users
- d) All of the above
- e) None of these

3) c)

$$17 + 1 \times 2 = 19$$

$$19 + 2 \times 3 = 25$$

$$25 + 3 \times 4 = 37$$

$$37 + 4 \times 5 = 57$$

$$57 + 5 \times 6 = 87$$

4) e)

$$3....5...9...15...23$$

$$...2....4....6....8...$$

$$43+23= 66$$

200) Which one of the following provides the ability to query information from the database and to insert tuples into, delete tuples from, and modify tuples in the database?

- a) DML(data manipulation language)
- b) DDL (data definition language)

5) b)

$$26 \times 6 - 12 = 144$$

$$144 \times 4 + 14 = 590$$

$$590 \times 2 - 16 = 1164$$

$$1164 \times 1 + 18 = 1182$$

6) c

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- 7) e
8) b
9) c
10) d

11) a;

Number of females above poverty line

$$= \frac{100-16}{100} \times 4400 \times \frac{2}{5} = 1478.4 = 1478$$

12) d;

Since we cannot find the population of states separately, so we cannot find the required answer.

13) a;

Population of state S_1 below poverty line

$$= 18000 \times \frac{4+3}{4} = 31500$$

Total population of state S_1

$$= 31500 \times \frac{100}{16} = 196875$$

Population of state S_5 below poverty line

$$= 24000 \times \frac{3+2}{3} = 40000$$

Population of state S_5

$$= 40000 \times \frac{100}{12.5} = 320000$$

∴ Required ratio = 196874: 320000 = 315: 512

14) e;

Total population of state S_2

$$= 4100 \times \frac{5+7}{5} \times \frac{100}{100-18} = 12000$$

15) b;

Number of males below poverty line

$$= 4800 \times \frac{2+3}{3} \times \frac{100}{100-36} \times \frac{36}{100} \times \frac{4}{9} = 2000$$

(16-20)

16) c

$$\text{In } 2011 - 12 = \frac{12130-11080}{11080} \times 100 = 9.48\%$$

$$2012 - 13 = \frac{11970-12130}{12130} \times 100 = -1.32\%$$

$$2013 - 14 = \frac{12660-11970}{11970} \times 100 = 5.76\%$$

$$2014 - 15 = \frac{13830-12660}{12660} \times 100 = 9.24\%$$

Hence, maximum increase is in 2011-12

17) b;

Profits in (Rs. Crore):

2010 -11 = 1370, 2011-12 = 2270, 2012-13 = 3010

2013-14 = 2060, 2014 - 15 = 1330

Hence, maximum profit is in 2012-13

18) a;

Average income from the Express train

$$\frac{21220}{5} = \text{Rs. } 4244 \text{ crore}$$

In 3 years (i.e 2010-11 , 2011-12, 2012-13) income from the Express trains is less than the average income from Express trains.

19) d;

Required percentage =

$$\frac{7970}{40450} \times 100 = 20\%$$

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20) a;

Required percentage =

$$\frac{51630}{21220+40450} \times 100$$

$$\frac{51630}{61670} \times 100 = 83.7\%$$

21) c;

Procurement Department:

$$\text{Male manager} = \frac{5}{9} \times 2700 = 1500$$

$$\text{Female Manager} = \frac{4}{9} \times 2700 = 1200$$

$$\text{Male Officers} = \frac{9}{22} \times 2200 = 900$$

$$\text{Female Officers} = \frac{13}{22} \times 2200 = 1300$$

Total female employees = 1200 + 1300 =

2500 Total male employees = 1500 + 900 = 2400

∴ Required percentage more

$$= \frac{2500 - 2400}{2400} \times 100 = 4\%$$

22) e;

Female managers in Finance department

$$= \frac{11}{25} \times 2500 = 1100$$

Male managers in Sales department

$$= \frac{9}{16} \times 2400 = 1350$$

∴ Required percentage

$$= \frac{1100}{1350} \times 100 = 81\%$$

23) d;

Female managers in Operation and Finance departments together

$$= \frac{4}{11} \times 2200 + \frac{11}{25} \times 2500$$

$$= 800 + 1100 = 1900$$

Male officers in Operation and Finance department together

$$= \frac{6}{14} \times 2800 + \frac{17}{32} \times 3200$$

$$= 1200 + 1700 = 2900$$

∴ Required ratio = 19: 29

24) e;

Male officers in Advertising and Sales departments

$$= \frac{9}{16} \times 1600 + \frac{8}{13} \times 2600$$

$$= 900 + 1600 = 2500$$

∴ Required percentage

$$= \frac{2500}{1600 + 2600} \times 100 = 59.5\%$$

25) c;

Female officers in Advertising and Public relation

$$= \frac{7}{16} \times 1600 + \frac{11}{20} \times 2500$$

$$= 700 + 1375 = 2075$$

Female managers in Advertising and Public Relation

$$= \frac{17}{29} \times 2900 + \frac{4}{9} \times 1800$$

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$$= 1700 + 800 = 2500$$

$$\therefore \text{Required difference} = 2500 - 2075 = 425$$

26) e;

Required Ratio

$$= (1800 + 2500 + 2400 + 2200) : (3200 + 1600 + 2600 + 2200)$$

$$= 8900 : 9600 = 89:96$$

27) c;

Total foreign investment in other sectors

$$= 19.5/100 \times$$

$$(1560+1780+1970+690+730+830+1940)$$

$$= \text{Rs. } 18.52 \text{ crore}$$

28) e;

Required percentage

$$= \frac{18.5 \times 1560}{14.4 \times 1940} \times 100$$

$$= \frac{28860}{27936} \times 100 = 103\%$$

29) b;

Foreign investment in Pharmaceutical sector in AP

$$= \frac{730 \times 8.5}{100} = \text{Rs. } 62.05 \text{ crore}$$

32)

Profit of 40% indicates that S.P. of 20 dolls = Rs $4725 \times \frac{100+40}{100} = \text{Rs } 6615$

$\therefore 8 \times \text{Price of 1st grade} + 22 \times \text{Price of 11nd grade} = \text{Rs } 6615$

Or $8 \times \text{Price of 1st grade} + 22 \times \frac{3}{4} \times \text{Price of 1st grade} = \text{Rs } 6615$

$\therefore \text{required Price} = \text{Rs } = \frac{6615}{8+22 \times \frac{3}{4}} = \text{Rs } 270.$

Foreign investment in telecom sector in Delhi

$$= 830 \times \frac{13.5}{100} = \text{Rs. } 112.05 \text{ crore}$$

\therefore Required percentage less =

$$= \frac{112.05 - 62.05}{112.05} \times 100 = 44.6\%$$

30) a;

Ratio of foreign investment in Defence sector in states are as under

Rajasthan : TN = 1560 : 690 = 52:23

Maharashtra : TN = 1940 : 690 = 194:69

MP : AP = 1780 : 730 = 178:73

MP : TN = 1780 : 690 = 178:69

Gujarat : Delhi = 1970 : 830 = 197 : 83

31) d;

Required ratio =

$$= \frac{25.6}{100} \times 1970 : \frac{(14.4+18.5)}{100} \times 1780$$

$$= 256 \times 197 : 329 \times 178$$

$$= 25216 : 29281$$



33)

As per principle of weighted average, the average profit %

$$= \frac{\frac{2}{5} \times 45 + \frac{3}{5} \times 20}{\frac{2}{5} + \frac{3}{5}} = 30$$

Now C.P. of 180 Screws = 180×40 paise = Rs 72

$$\therefore \text{Total Profit} = \text{Rs } 72 \times \frac{30}{100} = \text{Rs } 21.60.$$

34) 2. 25% loss

35)

Solution: **Method I:**

$$\text{Ravi's 1 day's work} = \frac{1}{6}; \text{B's 1 day's work} = \frac{1}{5}$$

$$\therefore \text{Ratio of their wages} = \frac{1}{6} : \frac{1}{5} = 5 : 6$$

$$\therefore \text{Rahim's share} = \frac{220}{5+6} \times 6 = \text{Rs. } 120$$

Method II: As wages are distributed in inverse proportion of number of days, their share should be in the ratio 5 : 6

$$\therefore \text{Rahim's share} = \frac{220}{11} \times 6 = \text{Rs. } 120$$

36)

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Solution: The boy can do the work in $\frac{10 \times 6}{10 - 6} = 15$ days.

Man's share : Boy's share = 15 : 10 = 3 : 2

$$\text{Man's share} = \frac{50}{5} \times 3 = \text{Rs } 30$$

37)

Solution: A's 1 day's work = $\frac{1}{6}$; B's 1 day's work = $\frac{1}{8}$

C's 1 day's work = $\frac{1}{12}$

A's share : B's share : C's share = $\frac{1}{6} : \frac{1}{8} : \frac{1}{12}$

Multiplying each ratio by the LCM of their denominators,

the ratio's become 4 : 3 : 2

$$\therefore \text{B's share} = \frac{1350}{9} \times 3 = \text{Rs. } 450$$

DIRECT METHOD

$$\begin{aligned} \text{A's share : B's share : C's share} &= \text{B's time} \times \text{C's time} : \text{A's time} \times \text{C's time} : \text{A's time} \times \text{B's time} \\ &= 98 : 72 : 48 = 4 : 3 : 2 \end{aligned}$$

$$\therefore \text{B's share} = \frac{1350}{9} \times 3 = \text{Rs. } 450$$

38)

Total ages of 30 boys = $14 \times 30 = 420$ yrs.

Total ages when class teacher is included = $15 \times 31 = 465$ yrs.

\therefore Age of class teacher = $465 - 420 = 45$ yrs.

39) And this increase in weight is due to the extra weight included due to the inclusion of new person.

\therefore Weight of new person = $120 + 12 = 132$ kg.

40)

Ratio = $5000 \times 2 : 10000 \times 2 = 1:2$

41)

Share of P = $3x$

Share of Q = x

$$\implies 3x + x = 10,400$$

$$\implies 4x = 10,400$$

$$\implies x = 2,600$$

$$\text{P's share} = 3 \times 2600 = 7800$$

42)

Profit ratio = $24000 : 8000 = 3:1$

$$P = (3 \times 36000) / 4 = 27,000$$

$$Q = 36000 - 27,000 = 9,000$$

43)

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Rate in still water = $1/2 (10 + 16) = 13$ km/hr
 Rate of current = $1/2 (16 - 10) = 3$ km/hr.

Man's rate downstream = $30/3$ km/hr = 10 km/hr
 Man's rate upstream = $18/3$ km/hr = 6 km/hr
 \therefore Velocity of stream = $(10-6)/2 = 2$ km/hr

44)

45)

Solution: Man's rate downstream = $(6 + 1.2)$ km/hr = 7.2 km/hr

Man's rate upstream = $(6 - 1.2)$ km/hr = 4.8 km/hr

Let the required distance be x km.

$$\text{Then } \frac{x}{7.2} + \frac{x}{4.8} = 1 \quad \text{or, } 4.8x + 7.2x = 7.2 \times 4.8$$

$$\text{Or, } x = \frac{7.2 \times 4.8}{12} = 2.88 \text{ km.}$$

By direct formula : Required distance = $\frac{1 \times [6^2 - (1.2)^2]}{2 \times 6}$

$$= \frac{36 - 1.44}{12} = 3 - 0.12 = 2.88 \text{ km}$$

46)

Solution: $P \left[1 + \frac{r}{100} \right]^t = A$

$$390625 \left[1 + \frac{4}{100} \right]^t = 456976$$

$$\left[1 + \frac{4}{100} \right]^t = \frac{456976}{390625}$$

therefore, $\left[\frac{26}{25} \right]^t = \left[\frac{26}{25} \right]^4$

Therefore, $t = 4$ the required time is 4 years.

47)

Quicker Approach:

X becomes 2x in 4 yrs.

2x becomes 4x in next 4 yrs.

4x becomes 8x in yet another 4 yrs.

Thus, x becomes 8x in $4 + 4 + 4 = 12$ yrs.



48)

Solution: We have, $P \left[1 + \frac{20}{100} \right]^t > 2P$

By trail, $\frac{6}{5} \times \frac{6}{5} \times \frac{6}{5} \times \frac{6}{5} > 2 \quad \therefore \left[\frac{6}{5} \right]^t > 2$

Therefore the required time is 4 yrs.

49)

$$1600 \times 2.5\% = 40$$

$$1640 \times 2.5\% = 41$$

$$1600 \times 2.5\% = 40$$

$$\text{Total Interest} = 121$$

50)

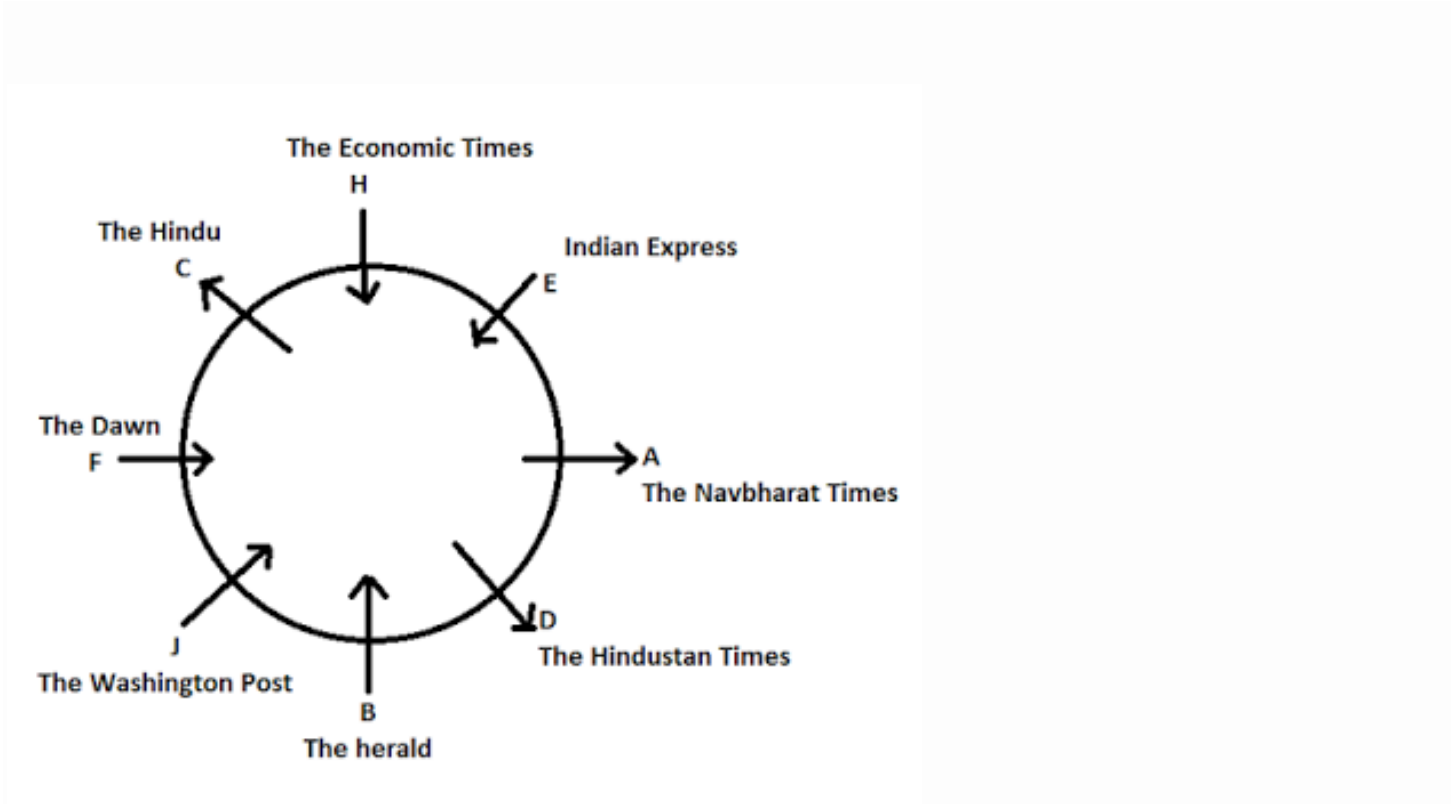
$$270 \times 7/12 = 157.5 \text{ milk}$$

$$270 - 157.5 = 112.5 \text{ water}$$

$$\text{water to add} = 157.5/112.5 + x = 9/5$$

$$\implies x = 25$$

(51-56)

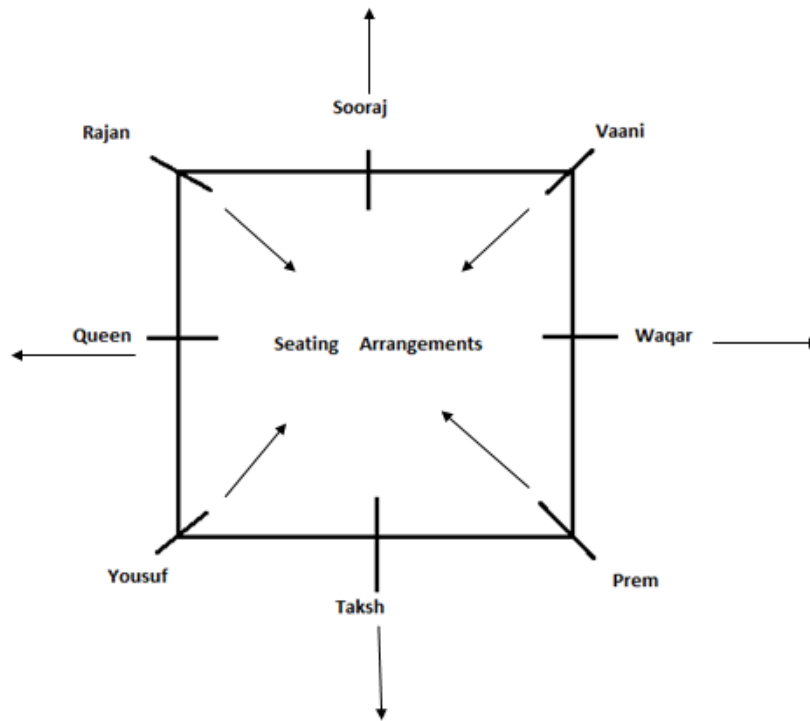


- 51) The Herald
- 52) B- The Herald
- 53) A, C, D

- 54) None
- 55) Three
- 56) F

(57-63):

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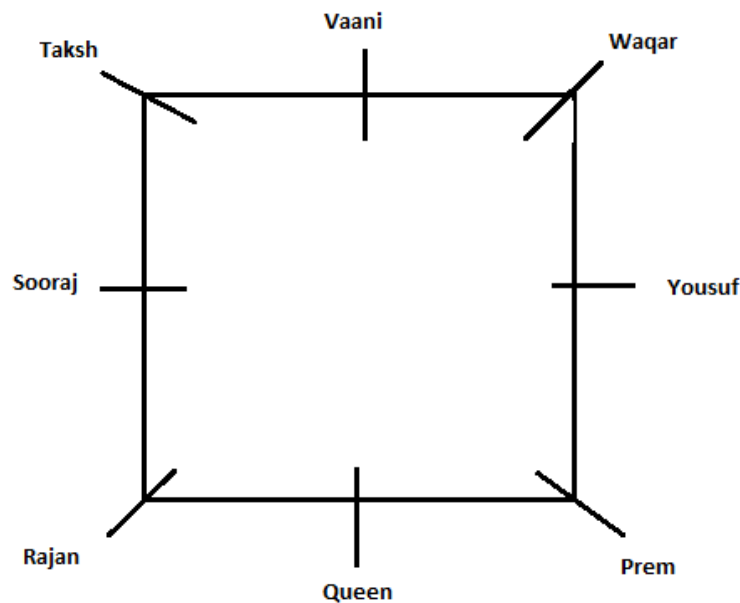
(Arrows shows the face direction of the persons)



position as per the question. Now all Persons have different positions after alphabetical arrangement starting from Prem so Answer is None because no one is on his same position.

57) a

According to question, following new arrangement is obtained. Prem is on his previous



58) c

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59) a

62) d

60) e

63) a

61) b

(64-68)



64) b

74) d All I, II and III

65) d

75) I and II only or II and III only

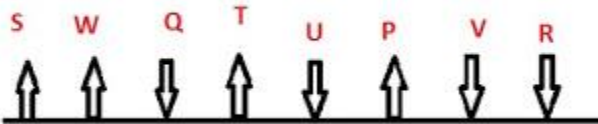
66) d

67) c

76) Question cannot be answered even with information in all three statements.

68) d

(69-73):



77) All the three statements I,II and III are necessary for answering the question.

78) All the three statements I, II and III are necessary for answering the question

69) b

79) c

70) d

80) e

71) b

81) a

72) a

82) e

73) b

83) a

84) e

Step II	21	Win	tyre	46	39	Case	file	51
---------	----	-----	------	----	----	------	------	----

IBPS IT Officers Scale I: Practice Paper

Step III	21	Win	39	Tyre	46	Case	file	51
Step IV	21	Win	39	tyre	46	File	case	51
Step V	21	Win	39	tyre	46	File	51	case

Step V is the last step. Hence, there will be no VI step.

85) d

(Input Can Not Be Determined)

86) e

Input	case	over	12	36	49	Long	Ago	42
Step	2	case	over	36	49	Long	Ago	42
Step II	12	Over	Case	36	49	Long	Ago	42
Step III	12	Over	36	Case	49	Long	Ago	42
Step IV	12	Over	36	Long	Case	49	Ago	42
Step V	12	over	36	Long	42	case	49	Ago

Thus, vth step is the last step. Last but one step is IV.

87) a

Input	judge	Retire	Home	62	53	41	34	Task
Step I	34	Judge	Retire	Home	62	53	41	Task
Step II	34	Task	Judge	Retire	Home	62	53	41
Step III	34	Task	41	judge	Retire	Home	62	53
Step IV	34	Task	41	Retire	Judge	Home	62	53
Step V	34	Task	41	Retire	53	Judge	Home	62
Step VI	34	Task	41	Retire	53	judge	62	Home

Hence, VI steps are required

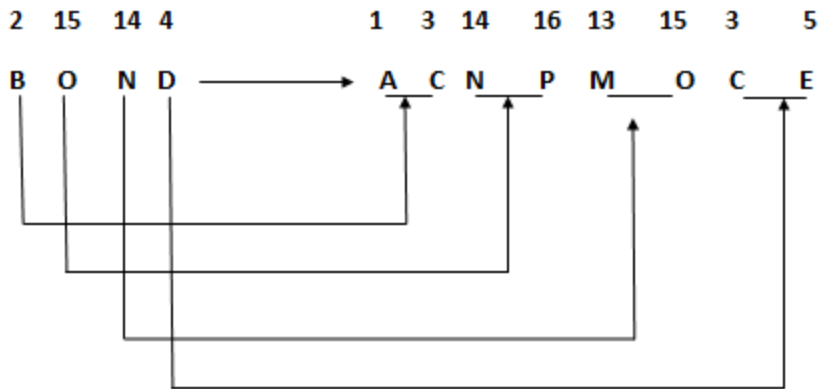
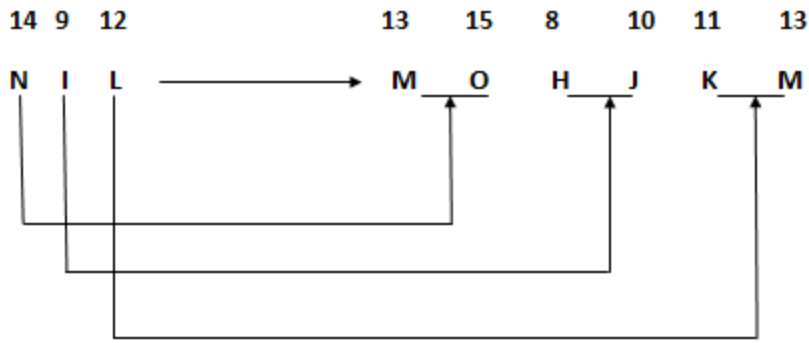
88) a

Step III	17	Vice	22	85	And	Car	Oil	42
Step IV	17	Vice	22	Oil	85	And	Car	42
Step V	17	Vice	22	Oil	42	85	And	Car
Step VI	17	Vice	22	Oil	42	Car	85	And

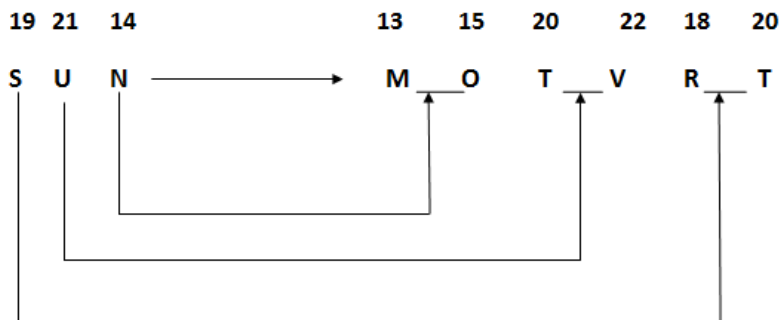
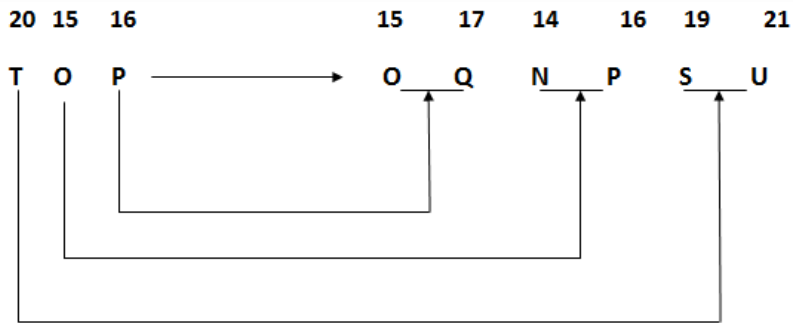
This is the last step. Hence, three more steps will be required to complete the rearrangement.

89) c

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90) b



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91) d

P - 7

K - 2

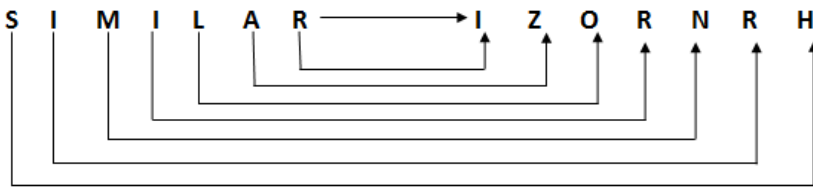
R - 9

O - 6

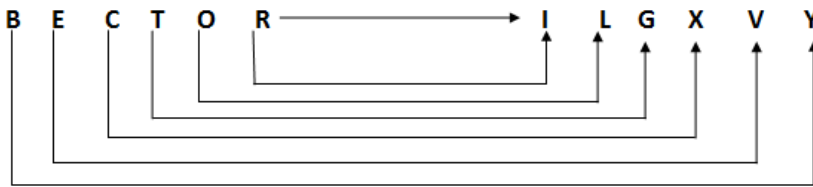
K - 2

(From above it shows that P is coded as 7, K is coded as 2, R is coded as 9 and O is coded as 6

92) b



Opposite alphabets of "BECTOR" is "ILGXVY"



93) c

T	I	G	E	R
20	9	7	5	18

T	E	N	D	U	L	K	A	R
20	5	14	4	21	12	11	1	18

94) c

95) d

96) e

97) Sum of ages of man and his son = $2 \times 48 = 96$

that means code of "QLSAZ" does not have either 7, 2, 9, 6 in options. Hence, required code will be 51430, which is given in Option D). In simple words, we can say that the options which does not contain either of 7, 2, 9 and 6 is answer.

Let the ages of man and his son be $5x$ and $3x$ years; then

$$5x + 3x = 96 \quad \Rightarrow \quad x = 12$$

Hence, son's age = $3x = 3 \times 12 = 36$ years.

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98) Let the present ages of Namrata and Divya are $4x$ and $3x$ years respectively; then $4x + 3x = 28$
Hence, their present ages are 16 and 12 years.
so, required ratio = $(16 + 4) : (12 + 4) = 20 : 16 = 5 : 4$

99) Let the present ages of Divya and Namrata are $3x$ and $4x$ years respectively ; then

$$\frac{3x-10}{4x-10} = \frac{1}{2} \Rightarrow 6x-20 = 4x-10$$

Hence, Sum of their ages $\Rightarrow 2x-10$ $\therefore x=5$
 $= 3x+4x = 7x = 7 \times 5 = 35 \text{ year}$

100) d

101) c

102) b

103) d

104) e

105) e

106) e

107) c

108) d

109) b

110) e

111) e

112) e

113) d

114) d

115) d

116) c; **She had** should be used.

117) b; **electrical** should be used.

118) d; **produces** should be used.

119) c; **Hatred of** is the correct phrase.

120) a; **In the wake** of is the correct phrase.

121) b; **between** should be used instead of among.

122) a; **has** should be used instead of have.

123) d; **information** is the correct word to be used.

124) c; **themselves** should be used instead of itself.

125). a; One of the **groups** is the correct answer.

126) c

127) b

128) a

129) e

130) a

131) Only B and C

132) Seeking out well - heeled people who have enormously emerged in Bengaluru.

133) Lamborghini proliferates augmentation in India.

134) Only B

135) Only C 136) c

137) a

138) b

139) b

140) b

141) D

142) d

143) a

144) c

145) d

146) long

147) accompany

148) statement

149) listener

150) into

151) b

152) b

153) d

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154) c
155) b
156) e
157) a
158) d
159) d
160) d
161) b
162) b
163) b
164) d
165) b
166) d
167) d
168) b
169) a
170) d
171) a
172) c
192) d
193) d
194) c
195) d
196) c
197) a
198) a
199) d
200) a

173) a
174) c
175) a
176) d
177) d
178) b
179) d
180) a
181) b
182) a
183) b
184) c
185) c
186) b
187) c
188) c
189) a
190) d
191) b

