

Special IBPS MOCK-3 By Alok Sir

QUANTITATIVE APTITUDE

Directions (1-3): In the following questions two equations numbered I and II are given. You have to solve both the equations and Give answer:

- (1) If $x > y$ (b) If $x \geq y$
 (c) If $x < y$ (d) If $x \leq y$
 (e) If $x = y$ Or the relationship cannot be established

1. I. $x^2 - 14x + 48 = 0$ II. $y^2 + 6 = 5y$

2. I. $x^2 + 9x + 20 = 0$ II. $y^2 + 7y + 12 = 0$

3. I. $x^2 = 529$ II. $Y = \sqrt{529}$

4. In how many different ways can the letters of the word 'INCERASE' be arranged?

- (a) 40320 (b) 10080
 (c) 64 (d) 20160
 (e) None of these

5. What is the area of a circle whose circumference is 1047.2 metres?

- (a) 87231.76 m^2 (b) 85142.28 m^2
 (c) 79943.82 m^2 (d) 78621.47 m^2
 (e) 69843.23 m^2

6. Karan starts a business by investing Rs. 60,000. Six months Shirish joins him by investing Rs. 1,00,000. At the end of one year from commencement of the business, they earn a profit of Rs 1,51,800 . What is the Shirish's share in the profit?

- (a) Rs. 55,200 (b) Rs. 82,800
 (c) Rs. 62,500 (d) Rs. 96,600
 (e) none of these

Directions (7-10): In the following number series only one number is wrong. Find out the wrong number.

7. 4 6 18 49 201 1011

- (a) 1011 (b) 2011
 (c) 18 (d) 49
 (e) None of these

8. 48 72 108 162 243 366

- (a) 72 (b) 108
 (c) 162 (d) 242
 (e) None of these

9. 2 54 300 1220 3674 7350

- (a) 3674 (b) 1220
 (c) 300 (d) 54
 (e) None of these

10. 8 27 64 125 218 343

- (a) 27 (b) 218
 (c) 125 (d) 343
 (e) None of these

Directions 11-15: Study the table carefully to answer the questions that follow :

Percentage of marks obtained by six students in six different subjects.

Sub. Student	Maths (Out of 150)	English (out of 75)	Science (out of 125)	Hindi (out of 50)	Soc.St. (out of 100)	Marathi (out of 125)
A	74	68	62	68	81	74
B	64	72	82	68	63	66
C	73	84	78	66	77	70
D	78	82	64	70	69	84
E	82	64	84	72	65	60
F	68	72	74	74	83	80

11. If to pass in the exam, a minimum of 54 marks in English and minimum 93 marks in Science are required, how many students passed both the exams?

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

12. Which student scored the highest marks in all subjects together?

- (a) F (b) E
 (c) B (d) C
 (e) None of these

13. What are the average marks obtained by all students together in Hindi ? (rounded off to two digits after decimal)

- (a) 35.02 (b) 32.68
 (c) 31.33 (d) 30.83
 (e) None of these

14. What is the overall percentage of marks obtained by F in all subject together?

- (a) 74 (b) 72
 (c) 75 (d) 78
 (e) None of these

15. What are total marks obtained by 8 in maths and social studies together?

- (a) 153 (b) 159
 (c) 146 (d) 149
 (e) None of these

Directions (16-20): What should come in place of the question mark (?) in the following questions?

16. $21^? \times 21^{6.5} = 21^{12.4}$

- (a) 18.9 (b) 4.4
 (c) 6.9 (d) 16.4
 (e) None of these

17. $12.25 \times ? \times 21.6 = 3545.64$

- (a) 14.8 (b) 12.6
 (c) 15.8 (d) 13.4
 (e) None of these

18. $15.5\% \text{ of } 646 + 24.5\% \text{ of } 298 = ?$

- (a) 184.22 (b) 173.14
 (c) 168.36 (d) 137.41
 (e) none of these

19. $2\frac{1}{3} + 1\frac{1}{5} + 2\frac{1}{4} = ?$

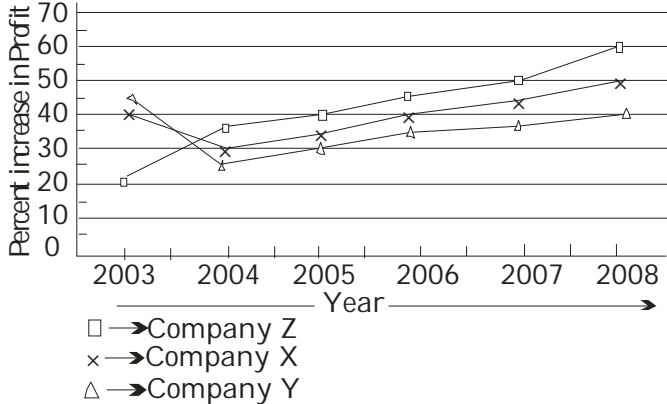
- (a) $8\frac{23}{60}$ (b) $4\frac{53}{60}$
 (c) $5\frac{47}{60}$ (d) $6\frac{37}{60}$
 (e) None of these

20. $\sqrt[3]{4096} = ?$

- (a) 16 (b) 26 (c) 18 (d) 24 (e) None of these

Direction (21-25); Study the graph carefully to answer the questions that following

Percent increase in profit of three companies over the years.



21. What was the percent increase in profit of company Y in the year 2008 from the previous year ?

- (a) 2 (b) 10 (c) 20 (d) 15 (e) none of these

22. What was the approximate percent increase in percent increase of profit of company Z in the year 2005 from the previous year?

- (a) 14 (b) 21 (c) 8 (d) 26 (e) 19

23. If the profit earned by company X in the year 2004 was 2,65,000, What was its profit in the year 2006?

- (a) Rs. 6,21,560 (b) Rs.4,68,290 (c) Rs.7,05,211 (d) 5,00,850 (e) none of these

24. What is the average percent increase in profit of company Z over the years?

- (a) $41\frac{5}{6}$ (b) $41\frac{2}{3}$
 (c) $28\frac{1}{6}$ (d) $23\frac{1}{3}$

(e) None of these

25. Which of the following statements is TRUE with respect to the graph?

- (a) Company X incurred a loss in the year 2004.
 (b) The amount of profit earned by company Y in the years 2006 and 2007 is the same
 (c) Company Z earned the highest profit in the other years.
 (d) Profit earned by company X in the year 2004 is lesser than the profit earned by company Z in that year.
 (e) None of these

Directions (26-30): what approximate value should come in place of the question mark (?) in the following questions ? (Note: you are not expected to calculate the exact value)

26. $\sqrt[3]{1500} = ?$

- (a) 11 (b) 6
 (c) 15 (d) 19
 (e) 4

27. $1\frac{3}{5} \times 2\frac{1}{7} \times 7\frac{1}{3} = ?$

- (a) 17 (b) 13
 (c) 9 (d) 29
 (e) 25

28. $18.999 \times 12.005 \times 25.998 = ?$

- (a) 4860 (b) 6470
 (c) 3320 (d) 5930
 (e) 4590

29. $11.5\% \text{ of } 666 \times 18.3\% \text{ of } 888 = ?$

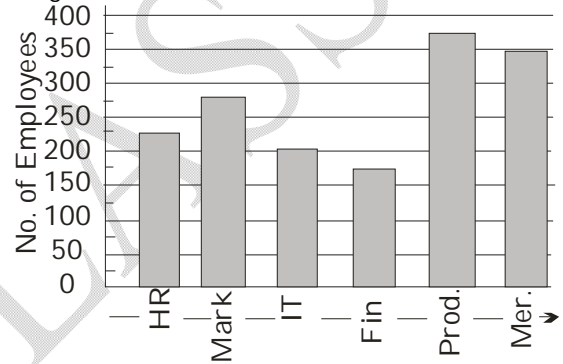
- (a) 15608 (b) 12446
 (c) 10520 (d) 18338
 (e) 11542

30. $2898 \div 22 \div 2 = ?$

- (a) 278 (b) 52
 (c) 66 (d) 43
 (e) 263

Directions (31-35): study the graph carefully to answer the questions that follow

Number of the employees working in different department SOF an organization and the ratio of males to females



Department	Males	Females
HR	9	16
Marketing	3	2
IT	9	31
Finance	2	3
Production	11	4
Merchandising	4	3

*Mark. = Marketing; *Fin. = Finance

*Prod. = Production; *Mer = Merchandising

31. What is the total number of males working in all departments together?

- (a) 755 (b) 925
 (c) 836 (d) 784
 (e) None of these

32. What is the number of females working in the HR department?

- (a) 158 (b) 128
 (c) 136 (d) 144
 (e) none of these

33. What is the respective ratio of total number of employees working in the production department to those working in the merchandising department?

- (a) 15:14 (b) 8:7
 (c) 14:15 (d) 7:8
 (e) None of these

34. In which department are the lowest number of females working?

- (a) Marketing (b) production
 (c) HR (d) finance

(e) None of these

35. What is the total number of employees from all departments together in the organisation?

- (a) 1500 (b) 1575
(c) 1525 (d) 1625
(e) None of these

REASONING ABILITY

Directions (36-40) : In each of the questions below are given three statements followed by two conclusions numbered I and II. You have to take the given statements to be true even if they seem to be at variance with commonly known facts. Read all conclusions and then decide which of the given conclusions logically follows from the given statements, disregarding commonly known facts. Give answer

- (1) If only conclusion I follows
(2) If only conclusion II follows
(3) If either conclusion I or II follows
(4) If neither conclusion I nor II follows
(5) If both conclusions I and II follows

(36-38) : Statements :

Some poor are rich. All rich are doctors. Some intelligent are doctors.

36. **Conclusions :**

- I. At least some poor are intelligents.
II. All intelligents being rich is a possibility.

37. **Conclusions :**

- I. All intelligents being doctors is a possibility.
II. Some poor are doctors.

38. **Statements :**

All fans are bulbs. All wires are holders. Some wires are bulbs.

Conclusions :

- I. At least some fans are wires.
II. All holders being fans is a possibility.

(39-40) : Statements :

No savings account is a current account. Some fixed deposits are savings accounts. Some current accounts are recurring deposits.

39. **Conclusions :**

- I. All savings accounts being current accounts is a possibility.
II. All fixed deposits being current accounts is a possibility.

40. **Conclusions :**

- I. All current accounts being fixed deposits is a possibility.
II. All savings accounts being recurring deposits is a possibility.

Directions (41-45): Read the following information carefully and answer the questions given below.

- (i) 12 friends A, B, C, D, P, Q, R, S, W, X, Y and Z are sitting in a row facing to the east.
(ii) X is third to the left of P, who is sixth to the right of A.
(iii) R is fourth to the right of Z, who is not near to C.
(iv) B is fifth to the right end and S is second to the left of D.
(v) W and Q are not near to P, who is second to the right B.
(vi) There are two friends between C and Y, who is not near to X.

41. Who are sitting at the end of the row ?

- (1) Z and W (2) W and Q
(3) Q and Z (4) Can't be determined
(5) None of these

42. What is the position of A in respect of S ?

- (1) immediate to right (2) third to right
(3) fourth to left (4) second to right
(5) fifth left

43. Who is sitting third to the right of R ?

- (1) B (2) S (3) Y
(4) B or S (5) B or Y

44. Which two friends are sitting near to D ?

- (1) A and R (2) Z and A
(3) P and Q (4) A and C
(5) Can't determined

45. Which of the following is true ?

- (1) Five friends are sitting between Z and B.
(2) R and X are sitting in the middle of the row.
(3) D is sitting fifth to the left of B.
(4) Only one friend is sitting between Y and Z.
(5) More than one of the above are true.

Directions (46-50) : Each question below is followed by two statements I and II. You are to determine whether the data given in the statement is sufficient to answer the question. You should use the data and your knowledge of Mathematics to choose between the possible answer. Give answer

- (1) 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.
(2) 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.
(3) If the data either in statement I alone or in Statement II alone are sufficient to answer the question.
(4) If the data given in both the statement I and II together are not sufficient to answer the question.
(5) If the data in both the statement I and II together are necessary to answer the question.
46. What does 'ki' means, in a code language ?
I. 'lo ki phi chi' means 'children are really cute'.
II. 'tee phi chi lo' means 'cute children are naughty'.

47. How is Y related to X?

- X is the father of Kush, who is Y's son.
II. X is Y' son.

48. Six person P, Q, R, S, T and V are sitting around a circular table. Who is sitting opposite to S?

- I. R is not sitting opposite to S.
II. P is sitting opposite Q.

49. Who is the tallest among A, B, C and D ?

- I. A is shorter than B, who is taller than C and D.
II. B is taller than A and C, while D is shorter than A.

50. What is the direction of P from V ?

- I. P is towards south of R.
II. P, A, N, V, L and Z are standing along a straight line and P is at the extreme right while L is at the extreme left.

Directions (51-55) : In these questions, relationship between different elements is shown in the statements. These statements are followed by two conclusions. Mark answer.

- (1) If only conclusion I follows.
(2) If only conclusion II follows.
(3) If either conclusion I or II follows.
(4) If neither conclusion I nor II follows.

- (5) If both conclusions I and II follow.
51. **Statements :** $X > P > Q \geq R, X = Y, X \leq Z$
Conclusions : I. $Y > R$ II. $R > Z$
52. **Statements :** $P > Q, S \leq T, X = Y, X > Z$
Conclusions : I. $S = Q$ II. $X > Q$
53. **Statements :** $S \leq T, T > R, T = W$
Conclusions : I. $R < S$ II. $S < W$
54. **Statements :** $X = Y \leq Z > W$
Conclusions : I. $Z = X$ II. $Z > X$
55. **Statements :** $S \geq R, R = X \leq Z, S < Y$
Conclusions : I. $Y > R$ II. $R > Z$

Directions (56-60) : Study the following information to answer the questions given below :

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

Input: 14 28 33 36 39 48 49 56
 Step I : 33 14 28 36 39 48 49 56
 Step II : 33 36 14 28 39 48 49 56
 Step III : 33 36 39 14 28 48 49 56
 Step IV : 33 36 39 48 14 28 49 56

This is the final arrangement and step IV is the last step for this input.

56. What will be the fifth step for an input whose **second step** is given below ?
Step II: 51 69 49 87 93 77 70 56
 (1) 51 69 49 87 93 77 70 56
 (2) 51 69 87 93 49 77 70 56
 (3) 51 69 87 93 49 56 77 70
 (4) 51 69 87 93 49 56 70 77
 (5) None of these
57. Below is given the **last step** of an input. What will be its second step ?
Last Step : 51 69 87 93 49 56 77 70
 (1) 51 69 49 87 93 56 77 70
 (2) 51 69 49 87 93 77 70 56
 (3) 51 69 49 87 77 93 70 56
 (4) Can't be determined
 (5) None of these
58. What should be the third step for the following input ?
Input : 91 276 35 249 553 511 201 183
 (1) 183 201 249 91 276 35 553 511
 (2) 183 201 91 276 35 249 553 511
 (3) 183 91 276 35 249 553 511 201
 (4) 35 91 183 276 249 553 511 201
 (5) None of these
59. **How many steps will be required to get the final output** from the following input ?
Input: 183 35 553 201 276 249 511 91
 (1) Four (2) Five (3) Six
 (4) Seven (5) None of these
60. **If the first step of an input is "15 287 93 69 427 371 497 51"** then which of the following steps will be "15 51 69 93 287 427 371 497" ?
 (1) Four (2) Five (3) Six
 (4) Three (5) None of these

Directions (61-65) : Read the following information given below to answer the following questions :

- (i) 'na ho pa la' means 'they are very intelligent'
 (ii) 'pit na sa' means 'you are welcome'.
 (iii) 'ka da la' means 'who is intelligent'

(iv) 'od ho pit la' means 'they welcome intelligent students'

61. **Which of the following means 'students' in that code language ?**
 (1) od (2) la (3) ho
 (4) pit (5) Data inadequate
62. **Which of the following means 'very' in that code language ?**
 (1) pa (2) na (3) da
 (4) Data inadequate (5) None of these
63. **Which of the following statement(s) is/are redundant to answer the above question?**
 (1) (iii) (2) (ii) (3) (ii) or (iii)
 (4) (i) or (iv) (5) None of these
64. **How many pairs of letters are there in the word COMMUNICATION which have as many letters between them as in the English alphabet ?**
 (1) Four (2) Five (3) Six
 (4) Seven (5) None of these
65. **If A means +, E means -, I means \times and O means \div , then what is the value of**
 21 O 3 I 7 E 10 A 39
 (1) 78 (2) 87 (3) 49
 (4) 59 (5) None of these

Directions (66-70) : Study the information given below and answer the given questions.

Eight friends Asha, Kishor, Kunal, Pankaj, Sameer, Firoj, Rishi and Harsh are sitting in a circle, but not necessarily in the same order. Four of them are facing outside and four of them are facing the centre. Sameer faces outside, Both the immediate neighbours of Sameer face the centre. Harsh sits second to the right of Sameer.

Kishor sits third to the left of Sameer. Pankaj faces the centre. Both the immediate neighbours of Pankaj face outside. Rishi sits second to the left of Asha. Kishor sits third to the right of Harsh. Firoj is an immediate neighbour of Pankaj. Kunal is an immediate neighbour of Rishi. Pankaj is not an immediate neighbour of Kishor.

66. **Who amongst the following sits on the immediate right of Harsh?**
 (1) Asha (2) Pankaj (3) Kunal
 (4) Rishi (5) None of these
67. **Who amongst the following sits third to the right of Asha?**
 (1) Pankaj (2) Sameer (3) Firoj
 (4) Rishi (5) None of these
68. **If all the people are made to sit in an alphabetical order, in clockwise direction, starting from Asha, the position of whom amongst the following remains the same (excluding Asha)?**
 (1) Sameer (2) Firoj (3) Kunal
 (4) Rishi (5) None of these
69. **How many people are seated between Asha and Kunal (counting clockwise from Asha)?**
 (1) Two (2) Four (3) None
 (4) One (5) Three
70. **Who amongst the following sits exactly between Firoj and Kunal (and is also their neighbour)?**
 (1) Sameer (2) Kishor (3) Rishi
 (4) Asha (5) None of these