

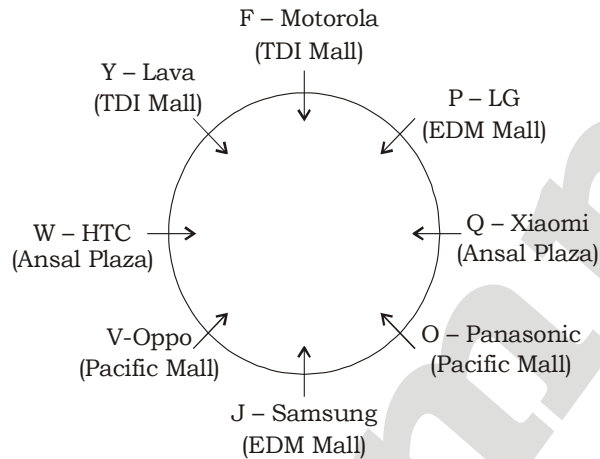
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IBPS PO SPECIAL PHASE - I MOCK TEST - 248 (SOLUTION)

REASONING

(1-5) :



1. (1) 2. (1) 3. (3) 4. (2) 5. (5)

(6-10) :

The machine rearranges one word and one number in each step. As for word, the words are arranged in alphabetical order while for numbers, perfect square and non-perfect square come in each alternate step in ascending order.

- Input:** ink 17 silent 100 burn 15 49 June 25 queen 64 3 firefox 20 time
Step I: burn 25 ink 17 silent 100.15 49 June queen 64 3 firefox 20 time
Step II: burn 25 firefox 3 ink 17 silent 100 15 49 June queen 64 20 time
Step III: burn 25 firefox 3 ink 49 17 silent 100 15 June queen 64 20 time
Step IV: burn 25 firefox 3 ink 49 June 15 17 silent 100 queen 64 20 time
Step V: burn 25 firefox 3 ink 49 June 15 queen 64 17 silent 100 20 time
Step VI: burn 25 firefox 3 ink 49 June 15 queen 64 silent 17 100 20 time
Step VII: burn 25 firefox 3 ink 49 June 15 queen 64 silent 17 time 100 20

6. (2) 7. (2) 8. (2) 9. (1) 10. (2)

(11-15) :

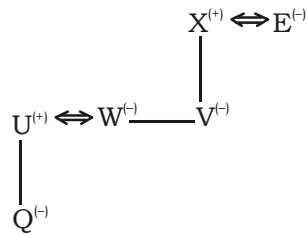
Day	Person	Colours	Games
Monday	Rupali	Grey	Shooter /Table Tennis
Tuesday	Raghav	Voilet	Hockey
Wednesday	Nutan	Pink	Archery
Thursday	Vishan	White	Shooter /Table Tennis
Friday	Vikash	Green	Judo
Saturday	Payal	Red	Cricket
Sunday	Neelam	Blue	Chess

11. (2) 12. (2) 13. (1) 14. (3) 15. (1)

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(16-18) :



16. (3) 17. (3) 18. (3)

(19-23) :

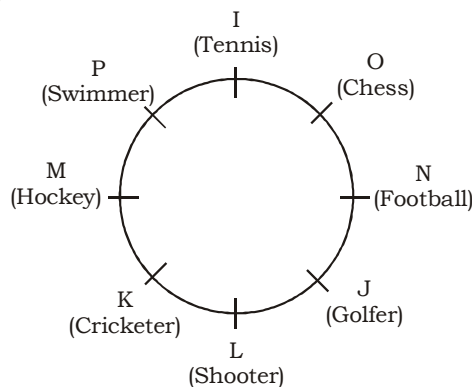
Person	Game	T-shirt	Mobile
D	Carrrom	Blue	Vivo
E	Kho-Kho	Yellow	Samsung
F	Chess	Violet	Samsung
G	Hockey	Red	Nokia
H	Table Tennis	Orange	Vivo
M	Badminton	Green	Nokia

19. (2) 20. (1) 21. (5) 22. (2) 23. (3)

(24-28) :

24. (4) I. $K \geq M$ [$M \geq J = K$] \rightarrow False
 $M \geq H$ [$H < I > J \leq M$] \rightarrow False
 Neither conclusion I nor II is true.
25. (5) I. $S > T$ [$T \leq R < S$] \rightarrow True
 II. $P \geq T$ [$P = Q \geq R \geq T$] \rightarrow True
 Both conclusion I and II are true.
26. (4) I. $R > P$ [$R \geq O < P$] \rightarrow False
 II. $R \geq N$ [$R \geq O \leq N$] \rightarrow False
 Neither conclusion I nor II is true.
27. (4) $R > S \geq T < U, V > T > X$
 I. $V > S$ [$S \geq T < V$] \rightarrow False
 II. $U > V$ [$V > T < U$] \rightarrow False
 Neither conclusion I nor II is true.
28. (4) I. $A \geq E$ [$A = B \leq C \geq E$] \rightarrow False
 II. $E > D$ [$E \leq C > D$] \rightarrow False
 Neither conclusion I nor II is true.

(29-33) :



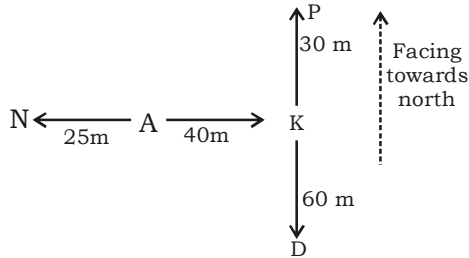
29. (3) 30. (4) 31. (2) 32. (2)
 33. (3) J and N, when counted clockwise.

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(34-35) :

Clearly, the arrangement of boys is as shown.



34. (5) Clearly, Amit is to the left of Keshav and Praveen is to the north-east of Amit.
35. (3) Required distance = NA + AK + KR + RP (25 + 40 + 60 + 90) m = 215 m.

Maths

(36-40) :

36. (1) ? $\approx 395 + 187 = 582$
37. (2) ? $= \sqrt[3]{3380} + \sqrt{1300} \approx \sqrt[3]{3375} + \sqrt{1296} = 15 + 36 = 51$
38. (3) ? $\approx (5)^2 + (21)^3 + \sqrt{1089} = 25 + 9261 + 33 = 9319$
39. (4) ? $\approx \frac{7020}{3} \times \frac{13}{29} = 1048.96 \approx 1050$
40. (5) ? $\approx \frac{5000 \times 25}{100} - \frac{3000 \times 65}{100} = 1250 - 1950 = -700$

(41-45):

41. (5) Required number of appeared candidates who qualified from state P in 2008
 $= \frac{126}{7} \times (11 + 7) = 324$
 \therefore Total number of appeared candidate from state P in 2008 = $\left(\frac{324}{60} \times 100 \right) = 540$
42. (3) Let the number of appeared candidate from state Q in 2006 = 100
Number of appeared candidate in 2007 from state Q in 2007 = 200
 \therefore Required number of appeared candidate from Q in 2006 = $\frac{408}{(30+90)} \times 100 = 340$
43. (1) Required difference = $450 \times \frac{60}{100} - 600 \times \frac{43}{100} = 270 - 258 = 12$
44. (4) Required number of qualified candidate from state Q in 2010
 $= (3 \times 210) - \left(280 \times \frac{60}{100} + 550 \times \frac{50}{100} \right) = 630 - (168 + 275)$
 $= 630 - 443 = 187$
45. (3) Number of qualified candidate from state P in 2009 = $480 \times \frac{70}{100} = 336$
 \therefore Required number of qualified candidate from state P in 2010 = $\frac{336}{14} \times 9 = 216$

(46-50):

46. (4) The series is based on the following pattern.
 $11 = 2 \times 3 + 5$
 $38 = 11 \times 4 - 6$
 $197 = 38 \times 5 + 7$
 $1172 \neq 197 \times 6 - 8$
 \therefore 1172 is wrong and it should be replaced by $197 \times 6 - 8 = 1174$

47. (1) The series is based on the following pattern :

$$107 - 71 = 36 = 6^2$$

$$71 - 46 = 25 = 5^2$$

$$46 - 30 = 16 = 4^2$$

$$30 - 21 = 9 = 3^2$$

$$21 - 19 = 2 \neq 2^2$$

∴ 19 should be replaced by 17 for which $21 - 17 = 2^2$

48. (4) The series is based on the following pattern :

$$16 = 9 + 7$$

$$25 = 16 + 9$$

$$41 = 16 + 25$$

$$68 \neq 25 + 41$$

49. (3) The series is based on the following pattern :

$$\begin{array}{ccccccc} & & 3 & & & & \\ & & \boxed{3.5} & & & & \\ 4 & \uparrow & \boxed{3.5} & \uparrow & 7.5 & \uparrow & 26.25 & \uparrow & 118.125 \\ \times 0.5 & \times 1.5 & \times 2.5 & \times 3.5 & \times 4.5 \end{array}$$

Obviously, 3.5 is the wrong number which should be replaced by 3.

50. (2) The series is based on the following pattern :

$$\begin{array}{ccccccc} 16 & 4 & 2 & 1.5 & \boxed{1.75} & 1.875 \\ \times 0.25 & \times 0.5 & \times 0.75 & \times 1 & \times 1.25 \end{array}$$

Obviously, 1.75 is the wrong number which should be replaced by 1.5.

51. (4) Suppose the initial weight of the stone = $6x$ kg.

Thus, its price would be $k(6x)^2$ rupees.

The total price of those three stone -pieces = $k[(1x)^2 + (2x)^2 + (3x)^2] = 14kx^2$ rupees

Now, loss occurred after being cut = $36kx^2 - 14kx^2 = 22kx^2$

Now, according to question,

$$₹ 5184 = 36kx^2$$

$$1kx^2 = \frac{5184}{36} = ₹ 144$$

$$22kx^2 = 144 \times 22 = ₹ 3168$$

52. (4) Suppose capacity of the tank = 24 litre.

Thus, Efficiency of A = 3 litre/hour and B = 4 litre/hour

After 2 hour, amount of water in tank = $2 \times (4 + 3) = 14$ litre.

Now, Amount of water to be filled = $24 - 14 = 10$ litre.

Thus, Total time required by B to fill the tank = $\frac{10}{4} = 2.5$ hours.

53. (2) The rate interest accrued on the sum = $\frac{700}{5000} \times 100 = 14\%$

Thus, required simple interest = $7000 \times \frac{170}{100} = ₹ 11,900$

54. (4) Required ratio = $\frac{6.4}{21.6}$

$$\frac{v_1}{v_2} = \frac{6.4}{21.6}$$

$$\frac{\frac{2}{3}\pi(r_1)^3}{\frac{2}{3}\pi(r_2)^3} = \frac{8}{27}$$

$$\left(\frac{r_1}{r_2}\right)^3 = \left(\frac{2}{3}\right)^3$$

$$r_1 : r_2 = 2 : 3$$

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55. (4) Total age of all 4 boys = $4 \times 9 = 36$ yrs.
Now, at present would be $(36 + 5 \times 4)$ yrs.
Again,
Total age of all five boys at present = $15 \times 5 = 75$ yrs.
Thus, age of new boy = $75 - 56 = 19$ yrs.

(56-60):

56. (4) Required average = $\frac{8500}{100} \times \frac{1}{3} \times (24 + 20 = 15) = 1671.66 \approx 1671$

57. (1) Number of males in Train - R = $8500 \times \frac{9}{100} \times \frac{40}{100} = 306$

58. (5) Required % = $\left(\frac{19}{13+9} \times 100\right)\% = \left(\frac{19}{22} \times 100\right)\%$
= $86.36\% \approx 86\%$

59. (3)

60. (4) Required % = $\left[\frac{(20-15)}{15} \times 100\right]\% = 33.33\% \approx 33\%$

(61-65):

61. (4) The given data are inadequate.

62. (5) From statement II,

If the age of Rani = x years, then Surekha's age = $2x$ years

$$x + 2x = 72$$

$$3x = 72 \text{ years}$$

$$x = \frac{72}{3} = 24 \text{ years}$$

Rani's age = 24 years

As per the given information in statement I, Nidhi's age can be determined.

63. (2)

64. (5) Let Mr. Mehta's present income be ₹ x .

From statement I and II, 10% of $x = 2500$

$$x \times \frac{10}{100} = 2500$$

$$x = 2500 \times 10 = ₹ 25000$$

65. (3) From statement I, Speed of the bus = $\frac{\text{Distance covered}}{\text{Time Taken}}$

$$= \frac{80}{5} = 16 \text{ kmph}$$

As per the information in statement II, the speed of the bus can also be determined.

(66-70):

66. (5) I. $4x^2 + 17x + 15 = 0$

$$x = -\frac{5}{4}$$

$$x = -3$$

II. $3y^2 + 19y + 28 = 0$

$$y = -\frac{7}{3}$$

$$y = -4$$

Hence, relationship between x and y can't be established.

67. (5) I. $3x^2 - 17x + 22 = 0$

$$x = \frac{11}{3}$$

$$x = 2$$

II. $5y^2 - 21y + 22 = 0$

$$y = \frac{11}{5}$$

$$y = 2$$

Hence, relationship between x and y can't be established.

68. (3) I. $3x^2 + 11x + 10 = 0$

$$x = -\frac{5}{3}$$

$$x = 2$$

II. $2y^2 + 13y + 21 = 0$

$$y = -\frac{7}{2}$$

$$y = -3$$

Hence, $x > y$

69. (4) I. $3x^2 + 13x + 14 = 0$

$$x = -\frac{7}{3}$$

$$x = -2$$

II. $8y^2 + 26y + 21 = 0$

$$x = -\frac{7}{4}$$

$$y = -\frac{3}{2}$$

Hence, $y > x \Rightarrow x < y$

70. (1) $3x^2 - 14x + 15 = 0$

$$x = \frac{5}{3}$$

$$x = 3$$

II. $15y^2 - 34y + 15 = 0$

$$y = \frac{3}{5}$$

$$y = \frac{5}{3}$$

Hence, $x \geq y$

ENGLISH LANGUAGE

91. (2) Add 'that' before 'the work'.

92. (4) Change 'indicates' into 'indicate'.

93. (3) Change 'to be' into 'being'.

94. (3) Remove 'the' before 'earth'.

95. (1) Change 'life' into 'lives'.

96. (1) Change 'have' into 'has'.

97. (2) Change 'linkage to into' 'linked to'.

98. (1) Change 'easy through' into 'eased through'.

99. (5) No error.

100. (1) Remove 'the' before 'Anglo - saxon'.

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IBPS PO SPECIAL PHASE -I MOCK TEST - 248 (ANSWER KEY)

- | | | | |
|---------|---------|---------|----------|
| 1. (1) | 26. (4) | 51. (4) | 76. (4) |
| 2. (1) | 27. (4) | 52. (4) | 77. (2) |
| 3. (3) | 28. (4) | 53. (2) | 78. (2) |
| 4. (2) | 29. (3) | 54. (4) | 79. (4) |
| 5. (5) | 30. (4) | 55. (4) | 80. (3) |
| 6. (2) | 31. (2) | 56. (4) | 81. (4) |
| 7. (2) | 32. (2) | 57. (1) | 82. (1) |
| 8. (2) | 33. (3) | 58. (5) | 83. (1) |
| 9. (1) | 34. (5) | 59. (3) | 84. (2) |
| 10. (2) | 35. (3) | 60. (4) | 85. (3) |
| 11. (2) | 36. (1) | 61. (4) | 86. (2) |
| 12. (2) | 37. (2) | 62. (5) | 87. (3) |
| 13. (1) | 38. (3) | 63. (2) | 88. (1) |
| 14. (3) | 39. (4) | 64. (5) | 89. (2) |
| 15. (1) | 40. (5) | 65. (3) | 90. (3) |
| 16. (3) | 41. (5) | 66. (5) | 91. (2) |
| 17. (3) | 42. (3) | 67. (5) | 92. (4) |
| 18. (3) | 43. (1) | 68. (3) | 93. (4) |
| 19. (2) | 44. (4) | 69. (4) | 94. (3) |
| 20. (1) | 45. (3) | 70. (1) | 95. (1) |
| 21. (5) | 46. (4) | 71. (4) | 96. (1) |
| 22. (2) | 47. (1) | 72. (4) | 97. (2) |
| 23. (3) | 48. (4) | 73. (1) | 98. (1) |
| 24. (4) | 49. (3) | 74. (5) | 99. (5) |
| 25. (5) | 50. (2) | 75. (1) | 100. (1) |