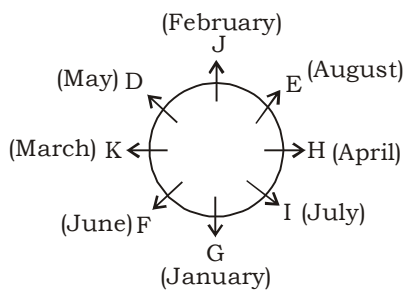


IBPS PO SPECIAL PHASE-I MOCK TEST- 275 (SOLUTION)

REASONING

(1-5):

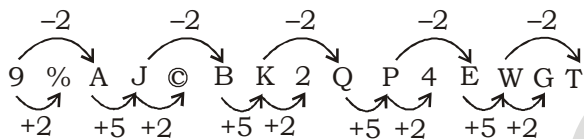


1. 2 2. 5 3. 3 4. 1 5. 3

(6-7):

6.2; Sixth to the right of 14th from the right end is $(14 - 6 =)$ 8th from the right end, ie F.

7.1;



Alternate Approach

Each element move; three r aces forward from the corresponding element in the previous group .

8.3; Number Consonant Symbol/Number/Vowel

ie 9B%, 4W@, 1Q@

Thus there are three such consonants in the given arrangement

9.4; Consonant Symbol Consonant

ie Q@K, W@G, 1Q@

Thus, there are three such symbols.

10.2; Symbol Number Consonant

ie @9B, %1Q

Thus, there are two such numbers.

(11-15):

always speak the truth → na pi ta ke ...
(i) always seek knowledge → ti na bi (ii) knowledge for truth → si ta ti ...
(iii)

never seek violence → li bi sa ...
(iv)

From (i) and (ii), always → na ...
(v)

From (i) and (iii), truth → ta ...
(vi)

From (i), (v) and (vi), speak/the → pi/ke ...
(vii)

From (ii) and (iii), knowledge → ti ...
(viii)

From (ii) and (iv), seek → bi ...
(ix)

From (iii), (vi) and (viii), for → si ...
(x)

From (iv) and (ix), never/violence \rightarrow li/sa ... (xi)

11. 2 12. 3 13. 4 14. 2 15. 3

16.1; **Given statements:**

$$V > P \geq Q \quad \dots(i)$$

$$S = R > Q \quad \dots(ii)$$

$$U > R \quad \dots(iii)$$

Combining all these statements, we get

$$U > S = R > Q \leq P \leq V$$

Thus, $U > O$ is true.

Hence I is true.

Again, we can't compare S and P.

Hence II ($S \geq P$) is not true.

(17-18):

Given statements:

$$L < M > N \quad \dots(i)$$

$$Q \geq P < O \quad \dots(ii)$$

$$L < S \quad \dots(iii)$$

$$O = N \quad \dots(iv)$$

Check for conclusion I.

From (i) and (iv), we get

$$M > N = O. \text{ Thus } M > O \text{ is true.}$$

Hence I is true.

Check for conclusion II.

From (ii) and (iv), we get,

$$P < O = N \text{ Thus, } P < N \text{ or } N > P \text{ is true.}$$

But conclusion II ($N < P$) is not true.

18.4; Check for conclusion I.

$$\text{From (ii) and (iv), we get } Q \geq P < O = N$$

Thus, we can't compare Q and N.

Hence I ($Q > N$) is not true.

Check for conclusion II.

From (i), (ii) and (iv),

$$\text{we get } L < M > N = O > P$$

We can't compare P and L.

Hence II ($P < L$) is not true.

19.2; **Given statements:**

$$B > H = P \quad \dots(i)$$

$$A > C > D \geq P \quad \dots(ii)$$

Combining both statements, we get

$$A > C > D \geq P = H < B$$

Thus, we can't compare A and B.

Hence I ($A > B$) is not true.

Again, $C > H$ is true.

Hence II is true.

20.4; **Given statements:**

$$A \geq B < C \quad \dots(i)$$

$$P > Q = R \geq N = C \quad \dots(ii)$$

Combining both statements, we get

$$P > Q = R \geq N = C > B \leq A$$

Thus, $Q \geq C$ is true.

Hence I ($C \geq Q$) is not true.

Again, $P > B$ is true.

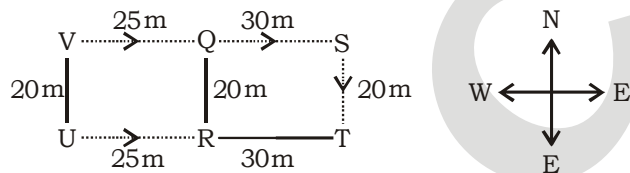
But II ($P \geq B$) is not true.

(21-25):

Person	School	Subject
A(+)	DPS	English
B(+)	Bal Bhawan	Hindi
C(+)	St Francis	Maths
D(-)	Bal Bhawan	Hindi
E(-)	St Francis	Computer
F(-)	DPS	Computer
H(+)	Bal Bhawan	Gk

21. 4 22. 1 23. 3 24. 3 25. 3

(26-27):



26. (3) $SV = VQ + SQ = 25 + 30 = 55m$

27. (2) Northeast

(28-30):

Floor	Person
8	Q
7	P
6	Z
5	O
4	X
3	Y/N
2	M
1	N/Y

28. (5)

29. (3)

30. (1)



(32-35) :

- H
- N/F
- C
- A
- L
- K
- O
- B
- M
- D
- E
- N/F

32. (4) 33. (5) 34. (1)
35. (5)

MATHS

36.5; $? \times 4.80 = 5836 - (2465 \div 49.3)\% \text{ of } 6872$
 $= 5836 - 50\% \text{ of } 6872$

$$= 5836 - \frac{1}{2} \times 6872 = 5836 - 3436 = 2400$$

$$\therefore ? = \frac{2400}{4.80} = 500$$

37.2; **Solving by breaking method:**

$$?\% \text{ of } 560 = 500 - (100\% \text{ of } 260 + 25\% \text{ of } 260) = 500 - (260 + 65) = 500 - 325 = 175$$

$$\text{or, } ? \times 5.60 = 175$$

$$\therefore ? = \frac{17500}{560} = \frac{1750}{56} = \frac{125}{4} = 31.25$$

38. 2; $? \times 4.5 = 7292 - (400\% \text{ of } 650 + 30\% \text{ of } 650) + (20\% \text{ of } 2220)$

$$= 7292 - (2600 + 195) - 444$$

$$= 7736 - 2795 = 4941$$

$$\therefore (?) = \frac{4941}{4.5} = \frac{49410}{45} = \frac{5490}{5} = 1098$$

39.3; $(?)^2 = 1.4 \times 625 + 4.2 \div 0.7 + 325 \times 9.8 + 159 = 875 + 6 + 3185 + 159 = 4225$

$$\therefore ? = \sqrt{4225} = 65$$

40.1; $? \times 1.60 = \frac{1}{2} \times 274 - 45 \times 1.8$

$$= 137 - 81 = 56$$

$$\therefore ? = \frac{56}{1.6} = 35$$

41.5; Reqd difference

$$= 50\% \text{ of } 1650 - 57\% \text{ of } 1200$$

$$= \frac{1}{2} \times 1650 - 57 \times 12 = 825 - 684 = 141$$

42. 4; Reqd ratio = $\frac{935 \times 45}{55 \text{ of } 1650}$

$$= \frac{935 \times 45}{55 \times 825} = \frac{17 \times 3}{55} = 51 : 55$$

43. 4; Reqd average = $\frac{1}{5} \{900 \times 0.6 + 1200 \times 0.43 + 660 + 960 \times 0.7 + 627\}$

$$= \frac{1}{5} \{540 + 516 + 660 + 672 + 627\}$$

$$= \frac{3015}{5} = 603$$

44. 1; Reqd sum = $840 \times 0.60 + 1650 \times 0.5 + 1200 \times 0.55 = 504 + 825 + 660 = 1989$

45. 3; Reqd number = $900 \times \frac{120}{100} \times \frac{55}{100} = 594$

46. 2; The series follows:

$$\text{Numerator} = 2 \times \text{Denominator} + 4$$

$$\text{So, } \frac{76}{35} \text{ should be replaced by } \frac{35 \times 2 + 4}{35}$$

$$= \frac{74}{35}$$

47. 3; The series is $(77)^2, (70)^2, (84)^2, (63)^2, (91)^2, (56)^2, \dots$

5929, 4900, 7056, 3969, 8281, 3136

Hence there should be 5929 in place of **5930**.

48. 4; The series is

$$\begin{array}{cccccc} & +27 & & +28 & & +55 & & +83 & & +138 \\ \hline 28 & & 55 & & 83 & & 138 & & 221 & & 359 \end{array}$$

Hence there should be 359 in place of **360**.

49. 1; The series is $85 \times 1 + 3 = 88$.

$$88 \times 2 + 6 = 182, \quad 182 \times 3 + 9 = \mathbf{555},$$

$$555 \times 4 + 12 = 2232,$$

$$2232 \times 5 + 15 = 11175, \dots$$

Hence there should be 555 in place of **550**.

50. 2; Move from right to left. The series is -16, -32, -64, -128, -256, ...

Hence there should be 302 in place of 300.

51.1; I. $3249^{\frac{1}{2}}x - \sqrt{625} = 4079$
 or, $57x = 4079 + 25 = 4104$

$$\therefore x = \frac{4104}{57} = 72$$

II. $5776^{\frac{1}{2}}y - \sqrt{324} = 4162$
 or, $76y = 4162 + 18 = 4180$

$$\therefore y = \frac{4180}{76} = 55$$

Hence, $x > y$

52.1; $3x - 2y = 37$... (i)
 $5x - 2y = 59$... (ii)

Equation (i) $\times 3$ - (ii) $\times 2$

$$9x - 6y = 111$$

$$10x - 6y = 118$$

$$- \quad + \quad -$$

$$-x = -7$$

Putting the value of x in eq (i), we get $21 - 2y = 37$

or, $-2y = 37 - 21 = 16$

$$\therefore y = -\frac{16}{2} = -8$$

Hence $x > y$

53. 3; I. $9x^2 + 4x - 28 = 0$

Step I. $+18$ -14

Step II. $+\frac{18}{9}$, $-\frac{14}{9}$

Step III. $x = -2$, $+\frac{14}{9}$

II. $2y^2 - 17y + 36 = 0$

Step I. -9 -8

Step II. $-\frac{9}{2}$, $-\frac{8}{2}$

Step III. $y = 4.5$, 4

Hence $x < y$

54.1 I. $\sqrt{169x} + 561 = 678$

or, $13x = 678 - 561 = 117$

$\therefore x = \frac{117}{13} = 9$

II. $\sqrt{324x} + 678 = 822$

or, $18x = 822 - 678 = 144$

$\therefore x = \frac{144}{18} = 8$

Hence $x > y$

55. 5; I. $7x^2 + 19x - 36 = 0$

$$\begin{array}{r} \diagup \quad \diagdown \\ \text{Step I. } +28 \qquad -9 \end{array}$$

$$\text{Step II. } +\frac{28}{7}, \qquad -\frac{9}{7}$$

$$\text{Step III. } x = -4, \qquad +\frac{9}{7}$$

II. $2y^2 - 21y - 98 = 0$

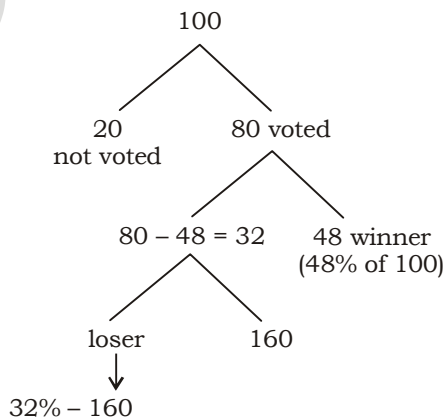
$$\begin{array}{r} \diagup \quad \diagdown \\ \text{Step I. } -28 \qquad +7 \end{array}$$

$$\text{Step II. } -\frac{28}{2}, \qquad +\frac{7}{2}$$

$$\text{Step III. } y = 4.5, \qquad -3.5$$

Hence relationship can't be established.

56. 1; Let total votes = 100



Now, $48\% - (32\% - 160) = 480$

or, $16\% = 320$

$\therefore 48\% = 960$

57. 3; According to the question, the amounts are equal

$\therefore 105 \times \text{1st part} = 110 \times \text{2nd part}$

$= 115 \times \text{3rd part} = k$

$\therefore \text{1st part} : \text{2nd part} : \text{3rd part}$

$= \frac{k}{105} : \frac{k}{110} : \frac{k}{115} = \frac{1}{21} : \frac{1}{22} : \frac{1}{23}$

$= 506 : 483 : 462$

Hence, on dividing ₹1451 into three parts in the ratio of 506 : 483 : 462

We have 1st part = ₹ 506

2nd part = ₹ 483

3rd part = ₹ 462

58. 4; A's one day's work = $\frac{1}{12}$

B's one day's work = $\frac{1}{16}$

C's one day's work = $\frac{1}{20}$

Ratio of efficiency = A : B : C

$= \frac{1}{12} : \frac{1}{16} : \frac{1}{20}$

A : B : C = 20 : 15 : 12

$\therefore \text{A's share} = \frac{3525}{47} \times 20 = ₹1500$

Method II.

Ratio of efficiency = A : B : C

$= \frac{(12 \times 16 \times 20)}{12} : \frac{(12 \times 16 \times 20)}{16} : \frac{(12 \times 16 \times 20)}{20}$

$= 16 \times 20 : 12 \times 20 : 12 \times 16$

$= 20 : 15 : 12$

A's share = $\frac{3525}{47} \times 20 = ₹ 1500$

59. 5; Reqd ratio = $\frac{\left(1 - \frac{2}{3}\right)^3}{1 - \left(1 - \frac{2}{3}\right)^3} = \frac{1}{27} \times \frac{27}{26}$

$= 1 : 26$

60. 1; Reqd number of ways = ${}^5C_3 \times {}^5C_2$

$= 10 \times 1 = 10$

61.4; Therefore 4 appears on the ticket-

4, 14, 24, 34, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 54, 64, 74, 84, 94

The total number of tickets having the digit '4' on it from 1 to 100 = 19

$$\therefore \text{Reqd probability} = \frac{{}^{19}C_1}{{}^{100}C_1} = \frac{19}{100}$$

62. 3; **Quicker Method :**

Reqd ratio = $S_1 : S_2$

$$= \frac{1}{r_1 t_1} : \frac{1}{r_2 t_2} = \frac{1}{15} : \frac{1}{18} = 6 : 5$$

$$\therefore S_1 = \frac{11000 \times 6}{11} = ₹ 60000$$

$$\text{And } S_2 = 110000 \times \frac{5}{11} = ₹ 50000$$

63. 1; **Given that**

$L = 13, B = 11$

$$\text{Depth} = \frac{1 + 5.5}{2} = 3.25$$

\therefore Volume of the swimming pool

$$= l \times b \times h$$

$$= 11 \times 13 \times 3.25 = 464.75m^3$$

64. 5; Let the speeds of the two trains be x m/sec and y m/sec respectively.

Length of the first train = $36x$ metres

and that of the second train = $24y$ metres

$$\text{Now, } \frac{36x + 24y}{x + y} = 30$$

$$\text{or, } 36x + 24y = 30x + 30y$$

$$\text{or, } 36x - 30x = 30y - 24y$$

$$\text{or, } 6x = 6y$$

$$\therefore \frac{x}{y} = \frac{1}{1}$$

So, the ratio of the speeds of the trains

$$= 1:1$$

65. 3; Perimeter = Distance travelled in 10 minutes = $\frac{12000}{60} \times 10 = 2000m$

The ratio of length to breadth is 3 : 2 And length + breadth = 1000 m

$$\text{Hence length} = \frac{1000}{5} \times 3 = 600m$$

And breadth = 400m

$$\therefore \text{Area} = 600 \times 400 = 240000 \text{ sqm}$$

66.2; Req'd difference = (96% of 40% of 20 + 95% of 50% of 30) - (90% of 42% of 27.5 + 90% of 38% of 24)

$$= \{20 \times 0.96 \times 0.4 + 30 \times 0.95 \times 0.5\} - \{27.5 \times 0.90 \times 0.42 + 24 \times 0.9 \times 0.38\} = \{(7.68 + 14.25) - (10.395 + 8.208)\} = (21.93 - 18.603) = 3.327 \text{ lakh}$$

67. 3; To find the no. of passed students we have three factors - no. of students, % appeared students and % passed students. IBPS Clerk shows highest value for two factors and second highest for one factor, so clearly it is our answer.

Hence the maximum in IBPS Clerk.

68. 1; Req'd average number

$$= \frac{8.448 + 10.125 + 8.208 + 14.25 + 10.395 + 7.68}{6}$$

$$= \frac{59.106}{6} = 9.851 \text{ lakh}$$

69. 5; We use the value of answer no. 98.

$$\text{Req'd difference} = \frac{1}{2} (8.448 + 10.125) - 1$$

$$(10.395 + 7.68) = \frac{1}{2} (18.573 - 18.075)$$

$$= \frac{1}{2} \times 0.498 = 0.249 \text{ lakh}$$

70. 5; Req'd% = $\frac{12\% (24 \times 90\% \times 38\%)}{24} \times 100$

$$= 12 \times 0.9 \times 0.38 = 10.8 \times 0.38 \approx 4\%$$

$$\Rightarrow y = \pm 8$$

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IBPS PO SPECIAL PHASE-I MOCK TEST- 275 (ANSWER KEY)

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