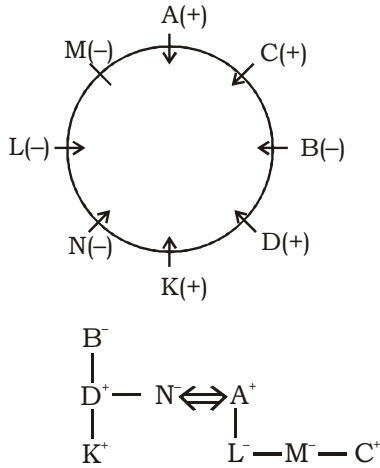# IBPS PO SPECIAL PHASE -I MOCK TEST - 235 (SOLUTION)

REASONING

(1–5) :

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

(6-10) :

6. (2) **Given statements :**
$D > H \geq N$ ....(i)
$S > I \leq H$ ....(ii)
Combining all statements
$S > I \leq H \geq N$
I. $N \leq S \rightarrow$ False
$I \leq H < D$
II. $I < D \rightarrow$ True
Hence, only conclusion II is true.

7. (2) **Given statements :**
$P \leq O < I$ ....(i)
$P > Y > W$ ....(ii)
Combining all statements
$I > O \geq P > Y$
I. $Y \leq I \rightarrow$ False
$O \geq P > Y > W$
II. $O > W \rightarrow$ True
Hence, only conclusion II is true.

8. (5) **Given statements :**
$A \geq B > C > F$ ....(i)
$Z < C \leq D < E$ ....(ii)
Combining all statements
$A \geq B > C > Z$
I. $A > Z \rightarrow$ True
$F \leq C \leq D < E$
II. $F < E \rightarrow$ True
Hence, both conclusion I and II are true.

9. (5) **Given statements :**
$T < P \leq U$ ....(i)
$L > U \leq K$ ....(ii)

$P \geq R$ ....(iii)
Combining all statements
$R \leq P \leq U \leq K$
I. $K \geq R \rightarrow$ True
$R \leq P \leq U < L$
II. $L > R \rightarrow$ True
Hence, both conclusions I and II are true.

10. (3) **Given statements :**
$H = I \leq R$ ....(i)
$M \geq R < S$ ......(ii)
Combining all statements
$I \leq R \leq M$
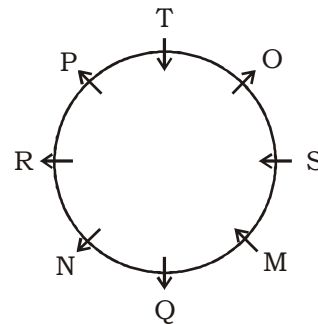I. $M = I \rightarrow$ Can't say
II. $M > I \rightarrow$ Can't say
Hence, either conclusion I or II is true.

(11–13) :

Floor	Person
6	Y
5	Z
4	O
3	N
2	X
1	M

11. (4) 12. (1) 13. (3)
14. (4) $D > E > C > F > B > A$

(15-19) :

15. (2) 16. (3) 17. (1)
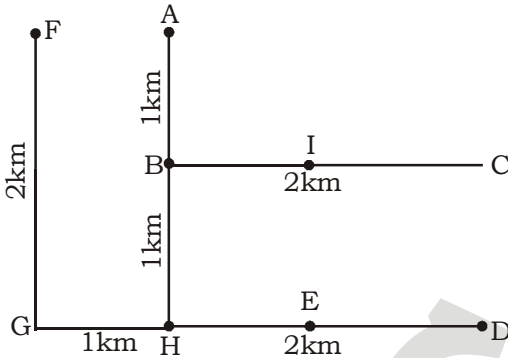18. (3) 19. (5)

(20-24) :

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

20. (2)   21. (2)   22. (2)

23. (1)   24. (2)

(25-27) :

25. (3) Required distance = GH + HE = 1 + 1
    = 2km
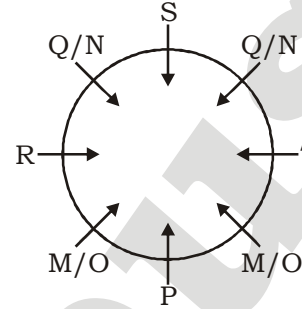
26. (1) 1 km

27. (1) 1 km

(28-32) :

Day	Person	Country
Monday	T	France
Tuesday	P	India
Wednesday	U	Singapore
Thursday	R	Canada
Friday	Q	Iran
Saturday	V	America
Sunday	S	England

28. (1)   29. (2)   30. (2)

31. (4)   32. (4)

(33–35):

33. (4) A's father's Birthday may be on 8th or 9th December.

34. (5) From both statement I and II

T sits opposite to R.

Both statement I and II together are necessary to answer the question

35. (5) From both statement I and II

thus we can say that A is brother – in – law of B.

Both statement I and II together are necessary to answer the question

MATHS

36. (3) $\dfrac{3}{8} \times 168 \times 15 \div 9 + 235$

= 16.5 + 33 × 48.75 + 477 + 165.75

= 16.5 + 1608.75 + 477 + 165.75 = 2268

37. (1) ? = 33% of 7850 + 46% of 8750 + 63% of 8350

Solving it by breaking method:

= (30 + 3)% of 7850 + (40 + 6)% of 8750 + (60 + 3)% of 8350

= 30% of 7850 + 3% of 7850 + 40% of 8750 + 6% of 8750 + 60% of 8350 + 3% of 8350

= 2355 + 235.5 + 3500 + 525 + 5010 + 250.5 = 11876

38. (3) ? = $5^3 + 3^3 + 48 + 475 - (74)^2 + (78)^2$

= 125 + 27 + 48 + 475 - 5476 + 6084

= 6759 - 5476 = 1283

39. (4) $\dfrac{3}{8} \times 168 \times 15 \div 3 + 7 = 549 \div 9 + 235$

or, ? = (61 + 235) – 3 × 21 × 5

= 296 – 315 = –19

40. (4) $? = \dfrac{32 \times 5 + 6^2 + 2^2}{8 \times 15 \times 6 \div 36} + \dfrac{65 \times 240}{26 \times 8} + \dfrac{495 \times 189}{7 \times 15}$

$= \dfrac{160 + 40}{20} + 5 \times 15 + 33 \times 27$

= 10 + 75 + 891 = 976

41.(4) Let usually S.P. = 100

After discounts price

$= \dfrac{85}{100} \times \dfrac{75}{100} \times \dfrac{108}{100} \times 100 = 68.85\%$

∴ Requried % = 100 - 68.85 = 31.15%

42. (2) P — 45000 × 12

Q — 54000 × 6

R — 30000 × 8

Ratio of their profit = 45 : 27 : 20

∴ Total profit earned = $\dfrac{92}{45} \times 13500$ =

13500 = 27600

43.(3)
```
180 ⟍ +5
        +4
225 ⟍——————⟶ 900 units
      -15
 60 ⟋
```

At 3 : 00 PM units filled = 2 × 5 + 4

= 14 units

Time required to empty in units = $\dfrac{14}{6}$ hours

= 140 minutes

= 2 hr 20 min.

∴ it will be emptied at 5 : 20 p.m.

44.(5) Let sum invested at scheme B = P

$\Rightarrow 6678 = P\left[\left(1 + \dfrac{10}{100}\right)^2 - 1\right]$

$\Rightarrow 6678 = P\left(\dfrac{11}{10} \times \dfrac{11}{10} - 1\right)$

$\Rightarrow 6678 = P\left(\dfrac{21}{100}\right)$

$\Rightarrow P = \dfrac{6678 \times 100}{21} = 31800$

Now Let Required Sum = x

∴ $(31800 - x) = \dfrac{x \times 14 \times 8}{100}$

25 × 31800 - 25x = 28x

53x = 31800 × 25

x = 15000 Rs.

45.(3) Let distance between B and C = x

Distance between A and B= x + 4

$\dfrac{x}{20} - \dfrac{x+4}{28} = \dfrac{36}{60}$

$\dfrac{7x - 5x - 20}{140} = \dfrac{3}{5}$

2x - 20 = 84

2x = 104

x = 52 km

∴ Distance from A to B = 56 km

46. (3) Let Milk = 14x

Water = 3x

Now, $\dfrac{14x + 5}{3x + 2.5} = \dfrac{4}{1}$

14x + 5 = 12x + 10

2x = 5

x = 2.5

∴ Initial quantity = 17 × 2.5 + 25.5 = 68

47.(4) Let present average = x year

Total age = 5x years

According to questions

5x - y + z = 5x - 15

y → old member, z → New member

-y → z = -15

y - z = 15

48.(3) According to the question

Rohit = 85

Monika = 85 – 10 = 75

Rahul = 75 + 55 = 130

Arun= 130 – 35 = 95

Raju = 95 + 44 = 139

Total mark = 139 + 61 = 200

Required percentage

$= \dfrac{139}{200} \times 100 = 69.5\% \simeq 70\%$

48.(2) Time taken by A to reach start point

$= \dfrac{900}{27 \times 5} \times 18 = 120$ sec

Time taken by B to reach start point

$= \dfrac{900}{36 \times 5} \times 18 = 90$ sec.

LCM of 90 and 120 = 30 × 3 × 4

= 360 sec.

∴ Required time = $\dfrac{360}{60} = 6$ min

50. (4) Let radius = r

∴ $\pi r^2 h = \dfrac{4}{3} \pi r^3$

$h = \dfrac{4}{3} r$

3h = 4r

3h = 2d ($\because$ 2r = d)

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

Numbers are cubes of consecutive prime numbers. i.e.

$1^3 = 1331$;
$13^3 = 2197$;
$17^3 = 4913$;
$19^3 = 6859$;
$23^3 = $ **12167;**
$25^3 = 15625$

Hence, 12167 will come in place of the question mark.

52. (2) The given series is based on the following pattern

$3600 \div 5 + 5 = 725$;
$725 \div 5 + 5 = 150$;
$150 \div 5 + 5 = 35$;
$35 \div 5 + 5 = 12$;
$12 \div 5 + 5 = $ **7.4**

Hence, 7.4 will come in place of the question mark.

53. (5) The given series is based on the following pattern:

$104 + 5 = 109$;
$109 - 10 = 99$;
$99 + 15 = 114$;
$114 - 20 = 94$;
$94 + 25 = $ **119**

Hence, 119 will come in place of the question mark.

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

$980 \div 2.5 = 392$;
$392 \div 2.5 = 156.8$;
$156 \div 2.5 = $ **62.72;**
$62.72 \div 2.5 = 25.088$;
$25.088 \div 2.5 = 10.0352$

Hence, 62.72 will come ir place of the question mark.

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

$14 \times 1 + 2 = 16$;
$16 \times 2 + 3 = 35$;
$35 \times 3 + 4 = 109$;
$109 \times 4 + 5 = 441$;
$441 \times 5 + 6 = $ **2211**

Hence, 2211 will come in place of the question mark.

56.(2) Required% = $\dfrac{\dfrac{18560}{800}}{\dfrac{4500}{300}} \times 100$

$= \dfrac{23.2}{15} \times 100 \approx 155\%$

57.(3) Production of vegetables per hectare in tones

Pea : = $\dfrac{72792}{7200} = 30.42$

Tomato : = $\dfrac{20895}{2100} = 9.95$

Onion & Garlic : $\dfrac{29490}{1500} = 19.66$

Cabbage : $\dfrac{42670}{1700} = 25.1$

Cauliflower : = $\dfrac{13790}{700} = 19.7$

Root vegetables : = $\dfrac{18560}{800} = 23.20$

Brinjal : = $\dfrac{4500}{300} = 15$

Leafy vegetables = $\dfrac{28600}{2900} = 9.86$

Tomato, Cabbage and root vegetables are more than 20 tonnes.

58.(3) Required Area = $\dfrac{7200 + 800}{1500 + 300} = \dfrac{80}{18}$

$= 40 : 9$

59.(3) Required average production

$= \dfrac{310389}{9} = 34487.67$

60.(1) Required tonnes per hectare

$= \dfrac{42670}{1700} - \dfrac{13790}{700}$

$= 25.1 - 19.7 = 5.4$

61. (5) Total number of students

$= 150 \times \dfrac{25}{100} \times \dfrac{32}{100} + 1500 \times \dfrac{15}{100} \times \dfrac{24}{100}$

$+ 1500 \times \dfrac{16}{100} \times \dfrac{55}{100} + 1500 + \dfrac{40}{100} \times \dfrac{28}{100}$

$= 1500 \{0.25 \times 0.32 + 0.15 \times 0.24 + 0.16 \times 0.55 + 0.4 \times 0.28\}$

$= 1500 \{0.08 + 0.036 + 0.088 + 0.1\ 121$

$= 1,500 \times 0.316 = 474$

62. (4) Reqd difference = (24% of 65% of 1500) – (16% of 55% of 1500)

$= (0.24 \times 0.65 \times 1500) - (0.16 \times 0.55 \times 1500) = 234 - 132 = 102$

63. (5) Reqd ratio = $\dfrac{16 \times 10}{32 \times 55}$

$= 1 : 11$

64. (3) The number of students who are job seekers in Computer stream

$= 1500 \times \dfrac{24}{100} \times \dfrac{65}{100} = 234$

The number of students who want to continue study in BioTech

$= 1500 \times \dfrac{32}{100} \times \dfrac{20}{100} = 96$

In computer $= 1500 \times \dfrac{24}{100} \times \dfrac{20}{100} = 72$

In Electrical $= 1500 \times \dfrac{16}{100} \times \dfrac{10}{100} = 24$

In Mechanical $= 1500 \times \dfrac{28}{100} \times \dfrac{15}{100} = 63$

Reqd % $= \dfrac{234}{96 + 72 + 24 + 63} \times 100$

$= \dfrac{234}{255} \times 100 = 91.77\%$

65. (2) Reqd average number

$= \dfrac{1500 \times \left(\dfrac{32}{100} \times \dfrac{55}{100} + \dfrac{24}{100} \times \dfrac{15}{100} + \dfrac{16}{100} \times \dfrac{10}{100} \right)}{3}$

$= \dfrac{1500 \times \left(\dfrac{1760}{10000} \times \dfrac{360}{10000} + \dfrac{160}{10000} \right)}{3}$

$= \dfrac{1500 \times \dfrac{2280}{10000}}{3} = 114$

66. (3) I. $17x^2 + 48x - 9 = 0$
$\Rightarrow 17x^2 + 51x - 3x - 9 = 0$
$\Rightarrow 17x(x + 3) - 3(x + 3) = 0$
$\Rightarrow (x + 3)(17x - 3) = 0$

$\therefore\ x = -3$ or $\dfrac{3}{17}$

II. $13y^2 - 32y + 12 = 0$
$\Rightarrow 13y^2 - 26y - 6y + 12 = 0$
$\Rightarrow 13y(y - 2) - 6(y - 2) = 0$
$\Rightarrow (y - 2)(13y - 6) = 0$

$\therefore\ y = 2$ or $\dfrac{6}{13}$

Clearly, $x < y$

67. (5) By equation I × 2 + equation II,
$8x + 14y + 12x - 14y = 418 - 38$
$\Rightarrow 20x = 380$
$\Rightarrow x = 19$
From equation I,
$4 \times 19 + 7y = 209$
$\Rightarrow 7y = 209 - 76 = 133$

$\therefore y = \dfrac{133}{7} = 19$

Clearly, $x = y$

68. (1) I. $16x^2 + 20x + 6 = 0$
$\Rightarrow 8x^2 + 10x + 3 = 0$
$\Rightarrow 8x^2 + 6x + 4x + 3 = 0$
$\Rightarrow 2x(4x + 3) + 1(4x + 3) = 0$
$\Rightarrow (2x + 1)(4x + 3) = 0$

$\therefore x = -\dfrac{1}{2}$ or $-\dfrac{3}{4}$

II. $10y^2 + 38y + 24 = 0$
$\Rightarrow 5y^2 + 19y + 12 = 0$
$\Rightarrow 5y^2 + 15y + 4y + 12 = 0$
$\Rightarrow 5y(y + 3) + 4(y + 3) = 0$
$\Rightarrow (y + 3)(5y + 4) = 0$ 4

$\therefore y = -3$ or $-\dfrac{4}{5}$

Clearly, $x > y$

69. (2) I. $18x^2 + 18x + 4 = 0$
$\Rightarrow 9x^2 + 9x + 2 = 0$
$\Rightarrow 9x^2 + 6x + 3x + 2 = 0$
$\Rightarrow 3x(3x + 2) + 1(3x + 2) = 0$
$\Rightarrow (3x + 1)(3x + 2) = 0$

$\therefore x = -\dfrac{1}{3}$ or $-\dfrac{2}{3}$

II. $12y^2 + 29y + 14 = 0$
$\Rightarrow 12y^2 + 21y + 8y + 14 = 0$
$\Rightarrow 3y(4y + 7) + 2(4y + 7) = 0$
$\Rightarrow (3y + 2)(4y + 7) = 0$

$\therefore y = -\dfrac{2}{3}$ or $-\dfrac{7}{4}$

Clearly, $x \geq y$

70. (4) I. $8x^2 + 6x - 5 = 0$
$\Rightarrow 8x^2 + 10x - 4x - 5 = 0$
$\Rightarrow 2x(4x + 5) - 1(4x + 5) = 0$
$\Rightarrow (2x - 1)(4x + 5) = 0$

$\therefore x = \dfrac{1}{2}$ or $-\dfrac{5}{4}$

II. $12y^2 - 22y + 8 = 0$
$\Rightarrow 6y^2 - 11y + 4 = 0$
$\Rightarrow 6y^2 - 8y - 3y + 4 = 0$
$\Rightarrow 2y(3y - 4) - 1(3y - 4) = 0$
$\Rightarrow (3y - 4)(2y - 1) = 0$

$\Rightarrow y = \dfrac{4}{3}$ or $\dfrac{1}{2}$

Clearly, $x \leq y$

ENGLISH LANGUAGE

81.4; Replace 'conterfeited' with 'counterfeit'
82.2; Replace 'into difficulty' with 'difficult'
83.4; Add 'been' after 'have'
85.2; Replace 'likely' with 'like a'
(86-90): BDACFE

IBPS PO SPECIAL PHASE -I MOCK TEST - 235 (ANSWER KEY)

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

Note:- *If you face any problem regarding result or marks scored, please contact 9313111777*

Note:- *Whatapp with Mock Test No. and Question No. at 7053606571 for any of te doubts. Join the group and you may also share your suggestions and experience of sunday Mock Test.*

Note:- *If your opinion differs regarding any answer, please message the mock test and question number to 8860330003*