IBPS PO SPECIAL PHASE-I MOCK TEST- 223 (SOLUTION)

REASONING

(1–5) :

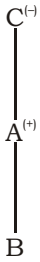
Person	Country	Language	Company
C	India	Chinese	Dell
A	Japan	Chinese	Samsung
B	Japan	Japanese	Lenovo
D	Russia	Japanese	Intel
E	China	Hindi	Micromax
F	India	English	HP

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

(6 - 10) :

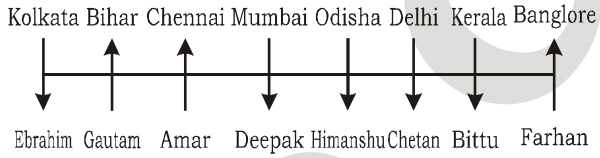
6. (1) $C^{(-)}$ ——— $P^{(+)}$ ——— D
Here C is the sister of D.

7. (2)



Here, A is the son of C.

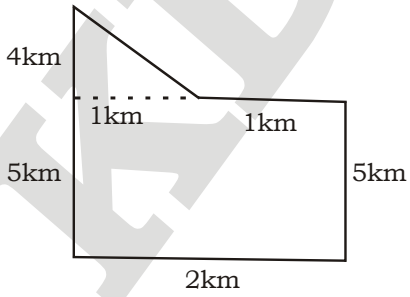
(8-12):



8. (4) 9. (3) 10. (4)
11. (3) 12. (1)

(13-15) :

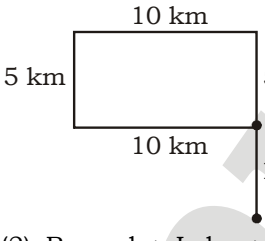
13. (5)



Required distance = $\sqrt{4^2+1^2}$

= $\sqrt{17}$ km

14. (4)



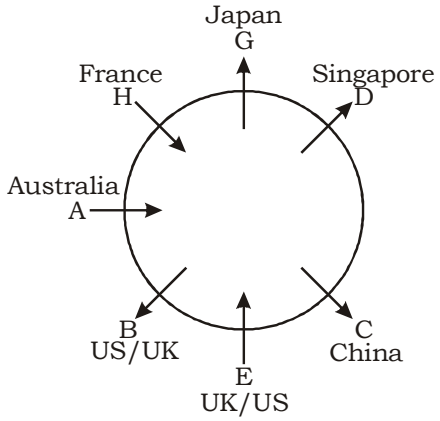
15. (2) Ramesh > Lalan > Gopal ..... (i)
Ramesh > Suresh > Gopal ..... (ii)
Lalan > Laukesh > Gopal ..... (iii)
From (i), (ii) and (iii),
Ramesh > Lalan > Laukesh > Suresh > Gopal

(16-20) :

Floor	Person	Colour
7	O	Yellow
6	M	Green
5	R	Black
4	L	Blue
3	Q	White
2	P	Brown
1	N	Red

16. (1) 17. (2) 18. (5)
19. (5) 20. (2)

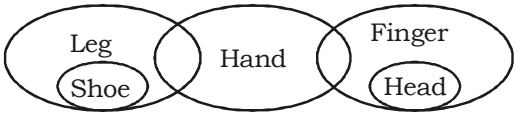
(21–25) :



21. (5) 22. (1) 23. (3)
24. (2) 25. (1)

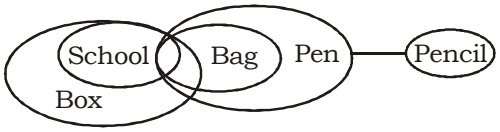
(26-30) :

26. (5)



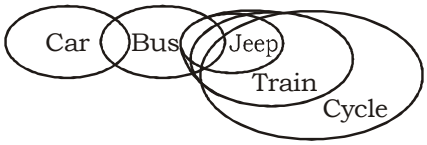
I. Doubt II. False
III. False IV. Doubt

27. (5)



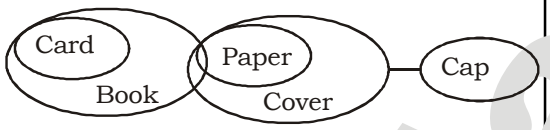
I. True II. True
III. True IV. True
V. False
Only conclusions I, II, III and IV follow

28. (2)



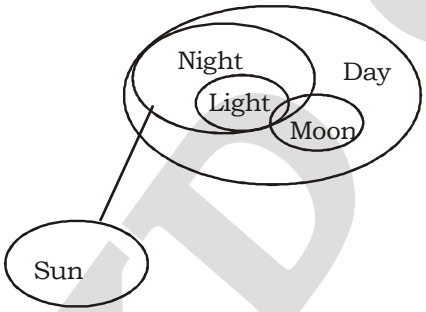
I. False II. True
III. False IV. True
Only conclusions I and III does not follow

29. (3)



I. True II. True
III. False IV. True
V. False
Only conclusions III and V does not follow

30. (5)



I. True II. True
III. True IV. True
All follow

(31–35) :

31. (4) **Given Statements**
$T < P \leq U$ ..... (i)
$L > U \geq K$ ..... (ii)
$P \leq R$ ..... (iii)
Combining all these statements,
$R \geq P \leq U \geq K$
I. $K > R \rightarrow$ False
$L > U \geq P \leq R$
II. $L > R \rightarrow$ False
Neither conclusion I nor II is true

32. (3) **Given Statements**
$H = I \leq R$ ..... (i)
$M \geq R < S$ ..... (ii)
Combining all these statements,
$H = I \leq R \leq M$
I. $M = I \rightarrow$ Doubt
II. $M > I \rightarrow$ Doubt
Either conclusion I or II is true

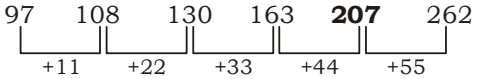
33. (2) **Given Statements**
$D > H > N$ ..... (i)
$S > I \leq H$ ..... (ii)
Combining all these statements,
$S > I \leq H > N$
I. $N \leq S \rightarrow$ False
From (i)
II. $N < D \rightarrow$ True
Only conclusion II is true

34. (2) **Given Statements**
$P \leq O < I$ ..... (i)
$P > Y > W$ ..... (ii)
Combining all these statements,
$W < Y < P \leq O < I$
I. $Y \leq I \rightarrow$ False
II. $O > W \rightarrow$ True
Only conclusion II is true

35. (4) **Given Statements**
$A \leq B > C \leq F$ ..... (i)
$Z < C \leq D < E$ ..... (ii)
Combining all these statements,
$A \leq B > C > Z$
I. $A > Z \rightarrow$ False
$F \geq C \leq D < E$
II. $F < E \rightarrow$ False
Neither conclusion I nor II is true

MATHS

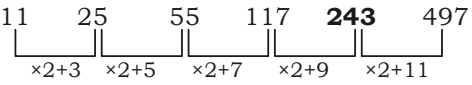
36.(4) The series is



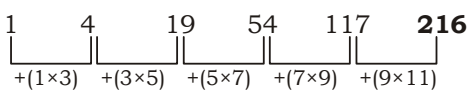
37.(4) The series is 5×3, 7×4, 9×5, 11×6, 13×7, 15×8, ...
ie $5 \times 3 = 15$, $7 \times 4 = 28$, $9 \times 5 = 45$, $11 \times 6 = 66$, $13 \times 7 = 91$, $15 \times 8 = 120$, ...
or, +13, +17, +21, +25, +29, ...

38.(3) The series is $8^2 + 1^2 + 0^2 = 65$,
$9^2 + 1^2 + 1^2 = 83$, $10^2 + 1^2 + 2^2 = 105$,
$11^2 + 1^2 + 3^2 = 131$, $12^2 + 1^2 + 4^2 = 161$,
$132 + 12 + 52 = 195$
or, +18, +22, +26, +30, +34,

39.(2) The series is



40. (2) The series is



41. (2) $689 \times 6156 \div 18\%$ of 684
$= 28 \times 250 \div 8 + ? + 4300$
or, $689 \times 6156 \div 123.12$
$= 28 \times 31.25 + ? + 4300$

or, $\frac{689 \times 6156 \times 100}{123.12} = 875 + ? + 4300$

$= ? + 5175$
$? = 34450 - 5175 = 29275$

42.(1) $\sqrt{?} = 137 + 43 - 12 - \sqrt{4624}$
$= 168 - 68 = 100$
$= 100 \times 100 = 10000$

43.(3) $189820 - 22624 + 35 \times ? - 372 \times 28$
$= 194440$
or, $167196 + 35 \times ? - (370 + 2) \times 28$
$= 194440$
or, $35 \times ? = 194440 - 167196 + 10360 + 56 = 204856 - 167196 = 37660$

$\therefore ? = \frac{37660}{35} = 1076$

44. (4) $? = 39\frac{13}{17} - 47\frac{18}{34} + 23\frac{11}{17} - 2\frac{1}{34}$

$= (39 - 47 + 23 - 2)\left(\frac{13}{17} - \frac{18}{34} + \frac{11}{17} - \frac{1}{34}\right)$

$= (62 - 49) + \left(\frac{26 - 18 + 22 - 1}{34}\right) 13\frac{29}{34}$

45.(5) 44% of 1950 + 82% of 250 + 62% × ? = 7883
Solving by breaking method:
40% of 1950 + 4% of 1950 + (80 + 2)% of 250 + 62% of ? = 7883
or, 780 + 78 - 200 + 5 + 62% of ? = 7883
or, 1063 + 62% of ? = 7883
or, 62% of ? = 7883 - 1063 = 6820

$\therefore ? = \frac{6820}{62} \times 100 = 11000$

46.(4) Let the length of the rectangle be L.

Then, breadth = $\frac{L}{2}$

Now, $L \times \frac{L}{2} = \frac{486}{3} = 162$

or, $L^2 = 162 \times 2$ $L = 18$
Again, perimeter of the circle
$= 18 \times 7 = 126$ So, $2\pi r = 126$

$\therefore r = \frac{126}{2\pi}$

$\therefore$ Area of the circle = $\pi r^2 = \pi = \frac{126}{2\pi} \times \frac{126}{2\pi}$

$= \frac{126 \times 126 \times 7}{2 \times 2 \times 22} = 1262.86$ sq cm

47.(3) Suppose the sum is Rs. x.

Simple interest $= \frac{\pi \times 4 \times 12}{100} = \frac{48x}{100}$

$CI = x\left(1 + \frac{10}{100}\right)^3 - x = x\left(\frac{1331}{1000} - 1\right)$

$= \frac{331x}{1000}$

Now, $\frac{48x}{100} - \frac{331x}{1000} = 1192$

or, $\frac{480x - 331x}{1000} = 1192$

or, $149x = 1192 \times 1000$

$\therefore x = \frac{1192 \times 1000}{149}$ = Rs. 8000

Method II.
Simple interest at the rate of 12% per annum in 4 years = 12 × 4 = 48%
Now, Cl for 3 years at the rate of 10% per annum

Step I. $10 + 10 + \frac{10 \times 10}{100} = 21\%$

Step II. $21 + 10 + \frac{21 \times 10}{100} = 31 + 2.1 = 33.1\%$

$\therefore$ Difference = (48 - 33.1)% = 14.9%
$\therefore$ 14.9% = 1192

$\therefore 100\% = \frac{1192}{14.9} \times 100$ = Rs. 8000

48.(1) The word CHRONICLE has 9 letters.
We treat vowels OIE as one letter.

So there are (6 + 1 =) 6 letters in which C appears twice.
Number of ways of arranging these letters

$= \frac{7!}{2!}$ ways = 2520

Now, there are" 3 vowels. So we can arrange them in 3! ways = 3 × 2 × 1 = 6 ways
∴ Reqd number of ways = 2520 × 6
= 15120

49.(5) Selection of l boy and 3 girls
$= {}^{6}C_1 \times {}^{5}C_3 = 6 \times 10 = 60$

Selection of no boy and 4 girls
$= {}^{6}C_0 \times {}^{5}C_4 = 1 \times 5 = 5$ way

∴ n(E) = Total no. of ways = 60 + 5 = 65
Without any restriction a committee of 4 can be formed from among 6 boys and 5 girls in $^{11}C_4$ = 330

∴ $P(E) = \frac{65}{330} = \frac{13}{110}$

50.(5) Let the number be x.
Then, 2x + 3 x 47 = 233
or, 2x = 233 - 141 = 92

$x = \frac{92}{2} = 46$

∴ Reqd sum = 46 × 3 + 2 × 47 = 138 + 94
= 232

51. (1) Reqd difference

$= \frac{1}{3}$ {(1525 + 3350 + 3300) - (1450 + 3075 + 3050)} $= \frac{1}{3}$ {8175 - 7575}

$= \frac{1}{3} \times 600 = 200$

Method II. (Logical Approach)

Difference = $\frac{1}{3}$ {75 + 250 + 275}

$= \frac{1}{3} \times 600$ = Rs. 200 per quintal

52.(3) Reqd ratio

$= \frac{(1525-1450)+(3300-3050)}{(3425-3175)+(3350-3100)}$

$= \frac{75+250}{250+250} = \frac{325}{500} = 13:20$

53. (2) Reqd % = $\frac{3175}{14925} \times 100 = 21.27\%$

54. (5) Reqd % = $\frac{250}{1075} \times 100 = 23.25\%$

55. (4) Reqd %= $\frac{250+75}{3075} \times 100$

$= \frac{325}{3075} \times 100 = 10.57\%$

56.(1) **I**

$9x^2 - 29x + 22 = 0$

Step I. 18 11

Step II. $-\frac{18}{9}$ $-\frac{11}{9}$

Step III. $x = 2, \frac{11}{9}$

II

$6y^2 - 13y + 39 = 0$

Step I. −18 −13

Step II. $-\frac{18}{6}$ $-\frac{13}{6}$

Step III. $y = 3, +\frac{13}{6}$

Hence x < y

57.(4) $x^2 = 11449$

∴ $x = \sqrt{11449} = \pm 107$

II. $y = \sqrt{11449} = 107$

Hence x ≤ y

58. (5) **I**

$6x^2 - 25x - 14 = 0$

Step I. +3 +28

Step II. $\frac{3}{6}$ $-\frac{28}{6}$

Step III. $x = -\frac{1}{2}, \frac{28}{6} = +\frac{14}{3}$

II

$8y^2 - 35x + 12 = 0$

Step I. −3 −32

Step II. $-\frac{3}{8}$ $-\frac{32}{8}$

Step III. $y = \frac{3}{8}, 4$

Hence, no relation can be established.

59. (3) $5x - 4y = 83$ ... (i)

$6x + 3y = 45$ ... (ii)

Solving equation (i) ×3 + (ii) ×4, we get

$15x - 12y = 249$

$24x + 12y = 180$

$39x = 429$

$\therefore \quad x = \frac{429}{39} = 11$

Putting the value of x in equation (i), we get, $55 - 4y = 83$

$\therefore -4y = 83 - 55$

$\therefore \quad y = -\frac{28}{4} = -7$

Hence $x > y$

60. (1) **I.** $9x^2 + 6\sqrt{7}x + 7 = 0$

or, $(3x + \sqrt{7})^2 = 0$

or, $3x = -\sqrt{7}$

$\therefore \quad x = -\frac{\sqrt{7}}{3}$

II. $4y^2 - 4\sqrt{3}y + 3 = 0$

or, $(2y - \sqrt{3})^2 = 0$

or, $2y = \sqrt{3}$

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

Hence $x < y$

61. (5) Time taken by both = $\sqrt{4.8 \times 10.8}$

$\sqrt{\frac{48 \times 108}{100}} = \sqrt{\frac{12 \times 4 \times 12 \times 9}{10 \times 10}}$

$= \frac{12 \times 2 \times 3}{10} = 7.2$ hours

62.(3) In original mixture % of liquid B

$= \frac{1}{4+1} \times 100 = 20\%$

In the resultant mixture % of liquid B

$= \frac{3}{2+3} \times 100 = 60\%$

Replacement in made by the liquid B, so the % of B is second mixture = 100%.

Then by the method of alligation

20% \ / 100%
60%
40% / \ 40%

Ratio in which initial mixture and liquid B be added is 1 : 1.

Total mixture after adding 15 litre B = 15 + 15 = 30 litres

$\therefore$ Liquid A in final mixture $= \frac{30}{5} \times 2 = 12$ litres

63. (4) Priya + Pritam = $3\frac{3}{7} = \frac{24}{7}$ ... (i)

Priyanka + Pritam $= 2\frac{2}{3} = \frac{8}{3}$ ... (ii)

Now, from (ii), we get

Pritam's work = $\frac{3}{8} - \frac{1}{4} = \frac{3-2}{8} = \frac{1}{8}$

Again, from (i),

Priya's work $= \frac{7}{24} - \frac{1}{8} = \frac{7-3}{24} = \frac{4}{24} = \frac{1}{6}$

Hence Priya alone does it in 6 hours.

64.(2) Manisha's share = Rs. 3570

Naina's share = $3570 \times \frac{4}{5}$ = Rs. 2856

$\because$ Total profit $= \frac{3570 + 2856}{85} \times 100$

$= \frac{6426}{85} \times 100$ = Rs. 7560

65.(1) Umesh's present age = 13 + 3 = 16 years

$\therefore$ Sambhu's age after 10 years = 2 × (16 + 10) = 52 years

$\therefore$ Sambhu's present age = 52 – 10 = 42 years

Sambhu's age after 6 years = 42 + 6 = 48 years

66. (3) Reqd number = $25000 \times \frac{97.5}{100} = 24375$

Note: While adding the numbers we can take only hundreds to save our time.

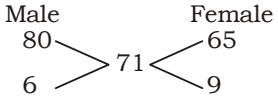
So, we take first two digits only.

$\therefore$ Total no. = 64 + 58 + 28 + 48 + 27 + 25 = 250 = 25000

Now, 97.5% of 25000

∴ Reqd no. of employees who use H-lB Visas and are Indians = 250 × 97.5 = 24375

67.(2) **Use alligation method:**



∴ Ratio = 2 : 3

The ratio of males to females = 2:3

∴ Reqd number of females in IBM India

$= \frac{3}{5} \times 2500 = 1500$

68.(4) Reqd difference

$$\frac{6400 + 2800 + 2500}{3} - \frac{2700 + 4800}{2}$$

$$= \frac{11700}{3} - \frac{7500}{2} = 3900 - 3750 = 150$$

69.(5) We take only two digits.

$\therefore$ Reqd% = $\frac{64}{250} \times 100 = 25.6\%$

70. (1) We take only two digits

Then, reqd ratio = $\frac{64 + 58 + 28}{48 + 27 + 25}$

$= \frac{150}{100} = 3 : 2$

ENGLISH

(86 - 90) :

86. (4) Instead of trump it should be trump's as sentence is in possessive form.
87. (3) Hardly itself is negative so after it no is not required.
88. (1) Word unique is complete in itself, superlative the most is superfluous here.
89. (2) Sentence is in past form, so word survey should be surveyed.
90. (1) Conjunction not only is for recorded growth not for island, the correct format is the island has not only recorded a growth.....

VOCABULARIES

Word	Meaning in English	Meaning in Hindi
Plummet	a steep and rapid fall or drop	सीसे का भार
Plunge	an act of jumping or diving into water.	डुबकी, तैरने का तालाब
Breach	an act of breaking or failing to observe a law, agreement, or code of conduct.	उल्लंघन
Volatile	(of a substance) easily evaporated at normal temperatures	परिवर्तनशील
Laurels	a tangible symbol signifying approval or distinction	बहादुरी का पुरस्कार
Kudos	praise and honor received for an achievement	यश
Postulate	a thing suggested or assumed as true as the basis for reasoning, discussion, or belief.	मांगना
Ascent	a climb or walk to the summit of a mountain or hill.	आरोहण
Transient	lasting only for a short time; impermanent.	क्षणिक
Screech	a loud, harsh, piercing cry	फटा आवाज
Littoral	of or relating to a coastal or shore region	नदी के किनारे का
Naval	connected with or belonging to or used in a navy	नौसैनिक
Deliberate	done consciously and intentionally	जानबूझकर

IBPS PO SPECIAL PHASE-I MOCK TEST- 223 (ANSWER KEY)

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

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