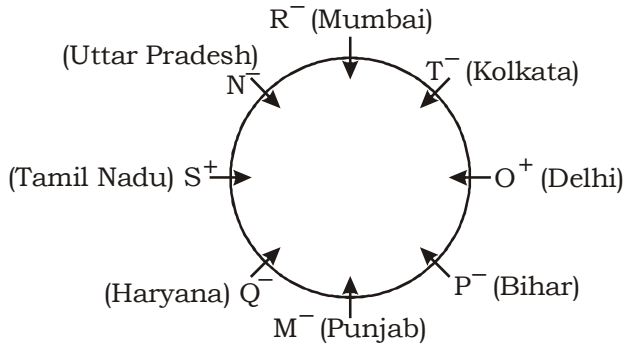


IBPS PO SPECIAL PHASE - I MOCK TEST - 279 (SOLUTION)

REASONING

(1-5):



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

(6-10):

6. (2) $T > Q \leq R > M = P$
I. $M < R \rightarrow$ True
II. $R > T \rightarrow$ False
III. $P > T \rightarrow$ False
IV. $P > Q \rightarrow$ false
Hence, only I is true
7. (3) $E < D \geq B = C < G \leq F$
I. $F > B \rightarrow$ True
II. $G > B \rightarrow$ True
III. $E < C \rightarrow$ false
IV. $C \geq D \rightarrow$ false
Hence, only I and II are true
8. (4) $D > E \geq F > B = H \leq C$
I. $D > H \rightarrow$ True
II. $C = B \rightarrow$ doubt
III. $B < C \rightarrow$ doubt
IV. $E < B \rightarrow$ False
Hence, either II or III and I are true
9. (3) $N < A \leq T = R \geq U, W > R, V \geq R$
I. $A \leq U \rightarrow$ False
II. $N < V \rightarrow$ True
III. $V \geq R \rightarrow$ True
IV. $U < W \rightarrow$ True
Hence, only II, III and IV are true.
10. (4) $M \geq X \geq Y = Z \geq O < N$
I. $Z < N \rightarrow$ False
II. $M \geq Y \rightarrow$ True
III. $X \geq O \rightarrow$ True
IV. $N > M \rightarrow$ False
Hence, only II and III are true

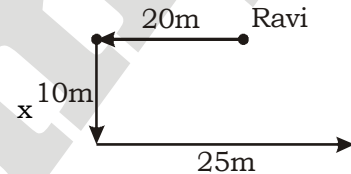
(11-15):

Floor	Person	Mobile	Colors
8	J	Motorola	Green
7	O	Asus	Yellow
6	S	Samsung	Black
5	R	Apple	Blue
4	-	-	-
3	Q	Micromax	Orange
2	I	Redmi	Red
1	P	Lenovo	Purple

11. (4) 12. (3) 13. (5)
14. (1) 15. (5)

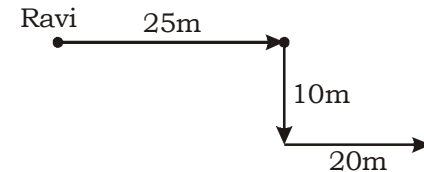
(16-20):

16. (3) **From I :-**



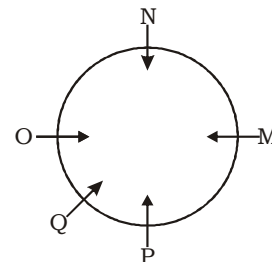
Ravi direction after stopped walking = East direction

From II :



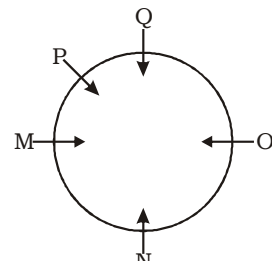
Ravi direction = East direction

17. (3)
18. (3) **From I:**



O sit between Q and N.

From II:



O sit between Q and N.

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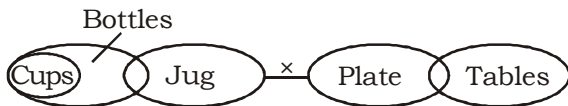
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19. (4) **From I :**
'de, fu, la, pa' → 'hibiscus flower is beautiful'
'la, qu' → 'beautiful tree'
Statement I not sufficient to give the answer
From II:
'de, fu, ch' - 'yellow hibiscu flower'
'pa, ch' - 'yellow tea'
Statement II not sufficient to answer the questions.
Both statement I and II are not sufficient to answer the questions.

20. (4)

(21-25):

21. (5) **Statement :**

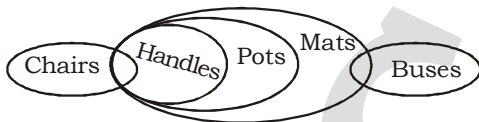


Conclusion :

- I. Can't say II. Can't say
III. Can't say IV. Can't say

But after comparing, we find that either I or III is true.

22. (2) **Statement :**

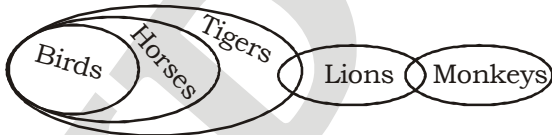


Conclusion :

- I. Can't say II. True
III. True IV. True

Only II, III and IV follow.

23. (1) **Statement :**

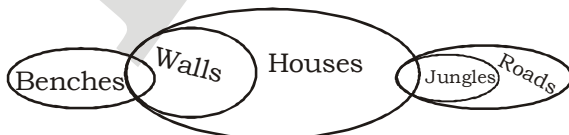


Conclusion :

- I. True II. Can't say
III. True IV. Can't say

Only I and III follow.

24. (3) **Statement :**

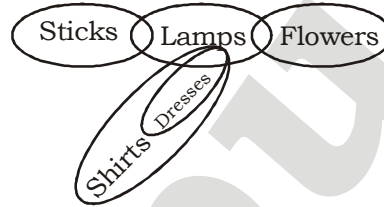


Conclusion :

- I. Can't say II. Can't say
III. True IV. True

Only III and IV follow.

25. (1) **Statement :**

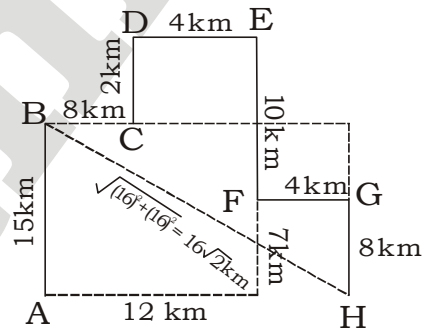


Conclusion

- I. Can't say II. Can't say
III. Can't say IV. Can't say

None follows.

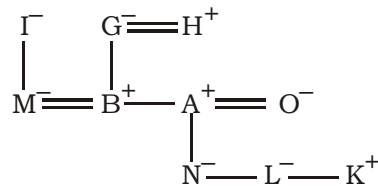
- (26-27) :



26. (2) $FB = 7 + 12 + 15 = 7 + 27 = 34$ km

27. (4) $BH = 16\sqrt{2}$ km

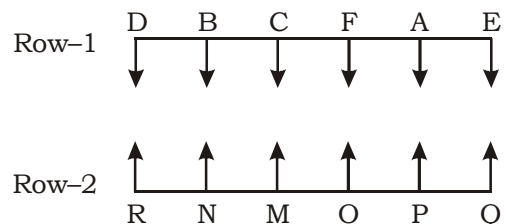
- (28-31) :



28. (2) 29. (3) 30. (1)

31. (1)

- (32-35) :



32. (4) 33. (3) 34. (2)

35. (3)

MATHS

- 36.(2) Perimeter = $2(7x + 5x) = 24x$
Distance covered by the man
 $= 9 \times \frac{5}{18} \times (5 \times 60 + 36) = 840$ m
Now, $24x = 840$
 $\therefore x = \frac{840}{24} = 35$ m
 \therefore Area of rectangular field = $7x \times 5x$
 $= 35x^2 = (35)^2 = 42875$ m²
- 37.(4) The series is

	+19	+19	+38	+38	+57	
178	197	216	254	292	349	

Hence, it should be 292 in place of **290**.
- 38.(4) The series is
 $\frac{1 \times 3 \times 5}{3 \times 2 \times 1} = \frac{5}{2}, \frac{5 \times 7 \times 9}{4 \times 3 \times 2} = \frac{105}{8},$
 $\frac{9 \times 11 \times 13}{5 \times 4 \times 3} = \frac{429}{20}, \frac{13 \times 15 \times 17}{6 \times 5 \times 4} = \frac{221}{8}$
 $\frac{17 \times 19 \times 21}{7 \times 6 \times 5} = \frac{323}{10}$
Hence, it should be $\frac{323}{10}$ in place of **$\frac{323}{12}$**
- 39.(5) The series is-

	+13	+23	+33	+43	+53	
142	155	178	211	254	307	

Hence, it should be 211 in place of **210**
- 40.(1) The series is
 $2381 - (17 \times 7) = 2262$
 $2262 - (19 \times 7) = 2129$
 $2129 - (21 \times 7) = 1982$
 $1982 - (23 \times 7) = 1821$
 $1821 - (25 \times 7) = 1646$
Hence, it should be 2262 in place of **2264**.
- 41.(1) The series is
 $788 + (2)^2 = 792$
 $792 + (12)^2 = 936$
 $936 + (22)^2 = 1420$
 $1420 + (32)^2 = 2444$
 $2444 + (42)^2 = 4208$
Hence, it should be 2444 in place of **2445**.
- 42.(5) $? = (13.073)^2 + (29.103)^2 + (33.983)^2 + (36.9653)^2$
 $\approx (13)^2 + (29)^2 + (34)^2 + (37)^2$
 $= 169 + 841 + 1156 + 1369 = 3535 \approx 3540$
- 43.(1) $\sqrt{1763.739} \times \sqrt{2400} \div 342.8998 + 1082.98$
 $\approx \sqrt{1764} \times \frac{\sqrt{2401}}{343} + 1083$

- $= 42 \times \frac{49}{343} + 1083 = 6 + 1083$
-
- $= 1089 \approx 1090$
- 44.(4) $\sqrt[3]{?} \times 31.96 + 103.98 \times 12.9765 - 90.954 \times 13.003 = 585.0138$
or, $\sqrt[3]{?} \times 32 + 104 \times 13 - 91 \times 13 = 585$
or, $\sqrt[3]{?} \times 32 + 13(104 - 91) \approx 585$
or, $\sqrt[3]{?} \times 32 + 169 \approx 585$
or, $\sqrt[3]{?} = \frac{585 - 169}{32} = 13$
 $\therefore ? \approx (13)^3 = 2197 \approx 2200$
- 45.(1) $? = 598\%$ of 586 + 639% of 634.793 - 3285.998
 $\approx 600\%$ of 586 + 640% of 635 - 3286
 $= 3516 + 4064 - 3286 = 4294 \approx 4280$
- 46.(4) $38.93 \sqrt{?} + \sqrt{5625} + \sqrt{7920} + \sqrt{?} = 163.9963 \times 9.873$
or, $39 \sqrt{?} + \sqrt{5625} + \sqrt{7921} + \sqrt{?} \approx 164 \times 10$
or, $40 \sqrt{?} + 164 \approx 1640$
or, $\sqrt{?} = \frac{1476}{40} \approx 37$
 $\therefore ? = (37)^2 = 1369 \approx 1360$
- 47.(3) The number of qualified students in 2011 and 2012 together = $2029 \times 2 = 4058$
The number of qualified students in 2011
 $= 4058 - 4270 \times \frac{60}{100} = 4058 - 2562 = 1496$
 \therefore Regd% = $\frac{1496}{2720} \times 100 = 55\%$
- 48.(1) The number of qualified male candidates
 $= 4270 \times \frac{60}{100} - 1098$
 $= 427 \times 6 - 1098 = 2562 - 1098 = 1464$
 \therefore Reqd ratio = $\frac{1098}{1464} = 3 : 4$
- 49.(1) Reqd number = $4270 \times \frac{120}{100} \times \frac{75}{100}$
 $= 4270 \times \frac{6}{5} \times \frac{3}{4} = 4270 \times \frac{18}{20} = 3843$
- 50.(2) Let the no. of appeared candidates be 100.
 \therefore Qualified candidates = 70
 \therefore Number of qualified female candidates = 30
 \therefore Reqd % = $\frac{30}{100} = 30\%$

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51. (3) The number of appeared candidates in

$$2013 = 708 \times \frac{11}{4} \times \frac{100}{55} = 3540$$

$$\therefore \text{Reqd difference} = 4350 - 3540 = 810$$

52. (3) Abhishek Bharat Charu

$$\text{Ratio of efficiency} \quad 2x \quad x \quad \frac{x}{2}$$

efficiency

$$4x : 2x : x$$

$$\text{Work efficiency} = 4x + 2x = 4 \text{ days}$$

$$6x = 4 \text{ days}$$

$$\therefore x = 4 \times 6 = 24 \text{ days}$$

(With $4x + 2x = 6x$ efficiency, Abhishek and Bharat take 4 days. So, with x efficiency, Charu will take $6 \times 4 = 24$ days)

53. (3) Total age of 80 boys = $80 \times 19 = 1520$

$$\text{Total age of 15 boys} = 15 \times 21 = 315$$

$$\text{Total age of next 25 boys} = 18 \times 25 = 450$$

Average of the remaining boys

$$= \frac{1520 - (315 + 450)}{80 - (15 + 25)} = \frac{1520 - 765}{40} = \frac{755}{40}$$

$$= 18.875 \text{ yrs}$$

54. (2) Let their present ages be $13x$ and $17x$ respectively.

$$\text{Therefore, } \frac{13x - 4}{17x - 4} = \frac{11}{15} \quad \therefore x = 2$$

$$\therefore \text{Reqd ratio} = \frac{13 \times 2 + 6}{17 \times 2 + 6} = \frac{32}{40} = 4:5$$

55. (4) The rate of filling water by the two pipes are as follows:

$$\text{For P} = \frac{1000}{150} = \frac{20}{3} = 6\frac{2}{3} \text{ litres per hour}$$

$$\text{For Q} = \frac{1000}{120} = \frac{25}{3} = 8\frac{1}{3} \text{ litres per hour}$$

$$\text{Reqd \%} = \frac{8\frac{1}{3} - 6\frac{2}{3}}{6\frac{2}{3}} \times 100 = 25\% \text{ more}$$

56. (5) Speed = $\frac{\text{Distance}}{\text{Time}}$

$$60 = \frac{L + P}{20}$$

$$\therefore L + P = (60 \times 20)$$

Hence we can't determine the length of the platform.

57. (4) Let the amount borrowed by Rohit at 12% per annum be x .

$$\text{Now, SI at 12\%} = \frac{x \times 12 \times 2}{100} = \frac{6x}{25}$$

And SI at 10%

$$= \frac{(3000 - x) \times 10 \times 2}{100} = \frac{3000 - x}{5}$$

$$\text{Again, } \frac{6x}{25} + \frac{3000 - x}{25} = 36480 - 30000$$

$$\text{or, } x = 25 \times 6480 = 150000$$

$$= 162000 - 150000 = ₹ 12000$$

Amount borrowed by Rohit at 12% is ₹ 12000.

58. (4)

2003 2004

$$\text{Population} \quad 4800 \xrightarrow{+10\%} = 5280$$

Female population 40% of 4800

$$= \frac{2}{5} \times 4800 = 1920$$

$$\text{Males} \quad (4800 - 1920) \quad (5280 - 1920)$$

$$= 2880 \quad = 3360$$

\therefore Reqd % increase (Male)

$$\frac{3360 - 2880}{2880} \times 100 = \frac{480}{2880} \times 100$$

$$= \frac{300}{18} = \frac{50}{3} = 16\frac{2}{3}\%$$

59. (3) Speed downstream = $\frac{14.4}{32} \times 60$

$$= 0.45 \times 60 = 27 \text{ kmph}$$

\therefore Speed of current = 3 kmph

$$\text{Speed of boat} = 27 - 3 = 24 \text{ km}$$

$$\text{Speed upstream} = 24 - 3 = 21 \text{ kmph}$$

\therefore Time taken by the boat to travel 84 km

$$\text{upstream} = \frac{84}{21} = 4 \text{ hours}$$

60. (3)

	A	B
Initial amount	$3x$	x

$$\text{After 3 months} \quad 3x - 3x \times \frac{1}{3} \quad x \times 3$$

$$= 2x \quad = 3x$$

Now, ratio of profit

$$= 3x \times 3 + 2x \times 9 : x \times 3 + 3x \times 9$$

$$= 9x + 18x : 3x + 27x$$

$$= 27x : 30x$$

$$= 9 : 10$$

$$\therefore \text{Total annual profit} = \frac{1800}{9} \times 19$$

$$= ₹ 3800$$

61. (2) A fills $\frac{160}{6}$ litres/hr.

B empties $\frac{160}{24}$ litres/hr 24

$$\text{Both together fill} = \frac{160}{6} - \frac{160}{24} = \frac{480}{24}$$

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= 20 litres/hr

⇒ They will take $\frac{16}{20} = \frac{4}{5}$ hours to fill 16 litres.

62.(4) Perimeter of the rectangle = $2(l + b)$

= 208

or, $l + b = 104$ cm

∴ $l : b = 8 : 5$

or, $b = \frac{104}{13} \times 5 = 40$ cm

Side of the square = $40 - 40\%$ of 40

= $40 - 16 = 24$ cm

∴ Perimeter of the square = $4 \times 24 = 96$ cm

63.(4) Cost price of article A = $7x$ and cost price of article B = $9x$

Total profit = $7x \times 0.4 + 9x \times 0.1 = 148$

or, $2.8x + 0.9x = 148$

or, $3.7x = 148$

∴ $x = \frac{1480}{37} = 40$

∴ Difference of the cost price = $9x - 7x = 2x = 2 \times 40 = ₹80$

	A	B
At present	x	y
2 years hence	$x + 2$	$y + 2$

Now, $\frac{x+2}{y+2} = \frac{6}{5}$

or, $5x + 10 = 6y + 12$

or, $5x - 6y = 2$... (i)

Again, $x - 13 = \frac{y}{2}$

or, $y = 2x - 26$... (ii)

Putting the value of y in equation (i), we get

$5x - 6(2x - 26) = 2$

or, $5x - 12x + 156 = 2$

or, $7x = 154$

∴ $x = 22$ years

65.(5) Ranu Ali

Monthly salary $\frac{4}{5} \times 10x = 8x$ $10x$

Savings $\frac{8x}{4} = 2x$ $10x \times \frac{2}{5} = 4x$

Now, $2x = 7000$

∴ $x = ₹ 3500$

∴ Ranu's monthly salary = $8 \times 3500 = ₹ 28000$

66.(2) Average = $\frac{175+159+197}{3} = 177$

67.(4) Reqd ratio = $\frac{98+122}{122+141} = \frac{220}{253}$

= $\frac{20}{23} = 20 : 23$

68.(5) Muffins sold in August = $\frac{180 \times 170}{100}$

= $180 \times 1.70 = 306$

69.(3) Reqd % more = $\frac{105+153-150}{150} \times 100$

$\frac{108}{150} \times 100 = \frac{108 \times 2}{3}$

= $36 \times 2 = 72\%$ more

70.(1) Reqd difference = $(220 + 151) - (109 + 87) = 371 - 196 = 175$

ENGLISH LANGUAGE

81. (4) Delete 'the'

82. (1) Replace "When" with 'While'

83. (4) Delete 'to'

84. (3) Replace 'them' with 'themselves'

85. (2) Replace 'the number of' with 'a number of'

(91-95): CGFAEBD

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IBPS PO SPECIAL PHASE -I MOCK TEST - 279 (ANSWER KEY)

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