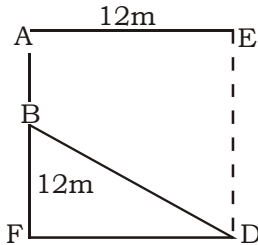


IBPS PO SPECIAL PHASE-I MOCK TEST- 320 (SOLUTION)

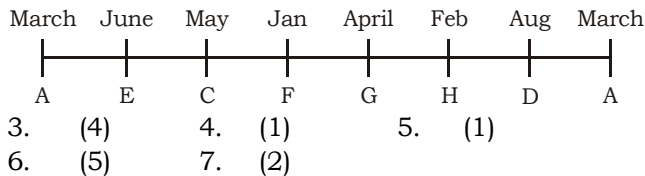
REASONING

(1-2) :

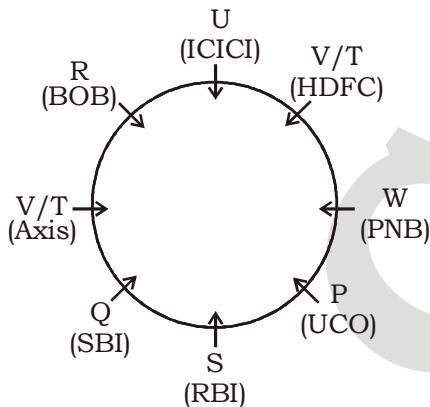


1. (2) Required distance = $12 + 10 = 22$ m
2. (1)

(3-7) :



(8-12) :



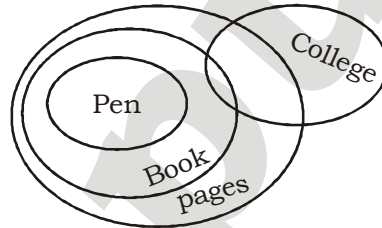
8. (3) 9. (5) 10. (4)
11. (4) 12. (1)

(13-17) :

13. (1) $G \geq R > K = L \geq T \geq S$
I. $L \geq S \rightarrow$ True
II. $T \leq R \rightarrow$ False
Only conclusion I is true.
14. (4) $T \geq Q > M = S < P < L$
I. $Q \geq P \rightarrow$ False
II. $L > T \rightarrow$ False
Neither conclusion I nor II is true.
15. (5) $C = T \geq U \geq V = Z \geq W$
I. $C \geq Z \rightarrow$ True
II. $T \geq W \rightarrow$ True
Both conclusion I and II are true.
16. (5) $M < L = K < B > C = D \geq E$
I. $K \geq D \rightarrow$ True
II. $E < B \rightarrow$ False
Neither conclusion I nor II is true.

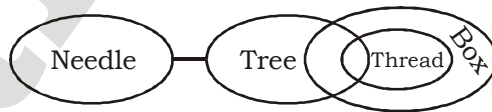
17. (1) $M \leq R = N \leq L < G = F$
I. $L \geq M \rightarrow$ True
II. $N < F \rightarrow$ True
Both conclusion I and II are true.

(18-19) :



18. (2) I. False
II. True
Only Conclusion II follows
19. (1) I. True
II. False
Only conclusion I follows

(20-21) :



20. (4) I. False
II. False
Neither conclusion I nor III is true.
21. (5) I. True
II. True
Both conclusion I and II are follow.

22. (4) Venn diagram with three overlapping circles labeled Theatre, Player, and Spectator.
- I. False
II. False
Neither conclusion I nor II is true.

(23-27) :

Person	Place	Month	Transportation
Sinha	Mussoorie	Jan / June	Bus
Saini	Rishikesh	December	Rail
Bhagat	Nainital	Jan / Aug / May / June	Flight
Yadav	Shimla	Jan / Aug / May / June	Car
Gupta	Manali	Jan / Aug / May / June	Rail
Mishra	Kullu	Jas / Aug / May / June	Bus

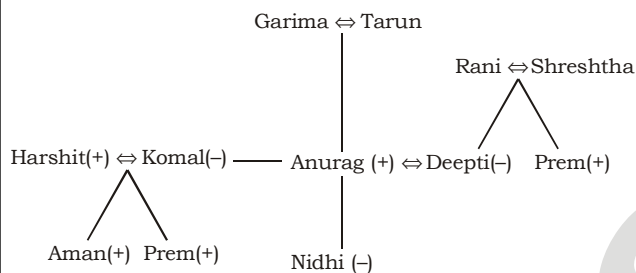
23. (4) 24. (3) 25. (4)
26. (1) 27. (2)

(28-32) :

Floor	Person	Car
6	Anil	Fiat
5	Nikhil	Hyundai
4	Ranjan	Maruti
3	Manish	Mahindra / Tata
2	Karan	Ford
1	Arun	Tata / Mahindra

28. (1) 29. (4) 30. (3)
31. (1) 32. (5)

(33-35) :



33. (1) 34. (2) 35. (3)

MATHS

36. (1) ? $\approx \frac{5555}{50} = 111.1 \approx 110$
37. (1) ? $\approx (18)^3 = 5832$
38. (3) ? $\approx 23 \times 19 \times 8 = 3496 \approx 3500$
39. (4) ? $= \frac{9999}{99 \times 9} = 11.22 \approx 11$
40. (2) ? $\approx \frac{450 \times 22}{100} = 99 \approx 100$
41. (1) Required average = $\frac{3.34 + 5.83 + 1.69}{3}$
 $= \frac{10.86}{3} = 3.62 \text{ Lac}$
42. (2) Required ratio = $\frac{2.79}{9.45} = \frac{31}{105} = 31 : 105$
43. (1) Required % = $\left(\frac{9.45 - 2.79}{2.79} \times 100 \right) \%$
 $= 238.70\% \approx 240\%$

44. (4)

45. (3) Required % = $\left(\frac{1.44 + 7.84}{5.53} \times 100 \right) \%$
 $= 167.81\% \approx 168\%$

46. (2) The pattern of the number series is :

$8 + 2 = 10$

$10 + 8 (= 2 \times 3 + 2) = 18$

$18 + 26 (= 3 \times 8 + 2) = 44$

$44 + 80 (= 3 \times 26 + 2) = 124$

$124 + 242 (= 3 \times 80 + 2) = \mathbf{366}$

47. (4) The pattern of the number series is :

$13 + 1 \times 12 = 13 + 12 = 25$

$25 + 3 \times 12 = 25 + 36 = 61$

$61 + 5 \times 12 = 61 + 60 = 121$

$121 + 7 \times 12 = 121 + 84 = 205$

$205 + 9 \times 12 = 205 + 108 = \mathbf{313}$

48. (1) The pattern of the number series is :

$\frac{656}{2} + 24 = 328 + 24 = 352$

$\frac{352}{2} + 24 = 176 + 24 = 200$

$\frac{200}{2} + 24 = 100 + 24 = 124$

$\frac{124}{2} + 24 = 62 + 24 = 86$

$\frac{86}{2} + 24 = 43 + 24 = \mathbf{67}$

49. (3) The pattern of the number series is :

$454 + 18 = 472$

$472 - 27 = 445$

$445 + 18 = 463$

$463 - 27 = 436$

$436 + 18 = \mathbf{454}$

50. (2) The pattern of the number series is :

$$12 \times 4 - 30 = 48 - 30 = 18$$

$$18 \times 4 - 36 = 72 - 36 = 36$$

$$36 \times 4 - 42 = 144 - 42 = 102$$

$$102 \times 4 - 48 = 408 - 48 = 360$$

$$360 \times 4 - 54 = 1440 - 54 = \mathbf{1386}$$

51. (4) Let the ninth person spent ₹ x .

Then, average of all the nine

$$= \frac{12 \times 8 + x}{9} = \frac{96 + x}{9}$$

$$\text{Given, } x = \frac{96 + x}{9} + 8$$

$$9x = 96 + x + 72$$

$$\Rightarrow 8x = 168$$

$$\Rightarrow x = 21$$

Hence, total money was spent by all of them

$$= 96 + 21 = \text{₹ } 117$$

52. (2) According to question,

Ratio of milk and water = 3 : 1

Let x L of mixture is taken away, then

$$\text{quantity of milk left} = \left(3 - \frac{3x}{4}\right)$$

$$\text{and water left} = \left(1 - \frac{x}{4}\right) + x$$

$$\text{Given, } 3 - \frac{3x}{4} = 1 - \frac{x}{4} + x$$

$$\Rightarrow 3 - 1 = \frac{3x}{4} - \frac{x}{4} + x$$

$$\Rightarrow 2 = \frac{6x}{4}$$

$$\Rightarrow x = \frac{4}{3}$$

$$\text{Required percentage} = \frac{4}{3 \times 4} \times 100 = 33\frac{1}{3}\%$$

53. (1) Let the investment made by

Gaurav = ₹ x

Then, investment made by

Lucky = ₹ $(81600 - x)$

$$\therefore (81600 - x) \left(1 + \frac{4}{100}\right)^2 = x \left(1 + \frac{4}{100}\right)^3$$

$$\Rightarrow 81600 - x = 1.04x$$

$$\Rightarrow x = \frac{81600}{2.04} = \text{₹ } 40000$$

54. (4) According to the question,

$$\text{Discount on articles} = \frac{1}{16} \times 100 = 6.25\%$$

$$\text{Overall discount} = -4 - 6.25 + \frac{4 \times -6.25}{100}$$

$$= -10\%$$

Let cost price = ₹ 100, then

selling price = ₹ 135

So, 90% of marked price = ₹ 135

$$\text{Marked price} = \frac{135 \times 100}{90} = \text{₹ } 150$$

Marked price is increased by

$$= \frac{150 - 100}{100} \times 100 = 50\%$$

55. (3) Side of the square

$$= \sqrt{196} = 14 \text{ cm}$$

Radius of circle = $2 \times 14 = 28$ cm

Length of rectangle = $2 \times 2 \times 28 = 112$ cm

$$\text{Breadth} = \frac{112}{2} = 56 \text{ cm}$$

Perimeter = $2(112 + 56) = (2 \times 168)$ cm

$$= 336 \text{ cm}$$

56. (1) Total population of City L

$$7000000 \times \frac{21}{100} = 1470000$$

$$\text{Female}_L = 1470000 \times \frac{48.9}{100} = 718830$$

57. (3) Total_M = $7000000 \times \frac{10.6}{100} = 742000$

∴ Males are 53.2%,

So females = $100 - 53.2 = 46.8\%$

∴ Difference = $53.2\% - 46.8\% = 6.4\%$

$$\therefore \text{Reqd answer} = 742000 \times \frac{6.4}{100} = 47488$$

58. (4) Female_Q = $1526000 \times \frac{(100 - 49.2)}{100}$
 = 775208
 Female_P = $\frac{1526000}{21.8} \times 100 \times \frac{7.5}{100} \times \frac{(100 - 47.9)}{100}$
 = $700 \times 7.5 \times 52.1 = 273525$
 $\therefore \text{Reqd}\% = \left(\frac{775208}{273525} \times 100 \right)\%$
 = 283.41% \approx 283.5%
59. (2) Total males = $\frac{1526000 \times 100}{21.8 \times 100 \times 100} \times \{21 \times 51.1 + 10.6 \times 53.2 + 23.7 \times 52.9 + 15.4 \times 53.8 + 7.5 \times 47.9 + 21.8 \times 49.2\}$
 = $700 \times \{1073.1 + 563.92 + 1253.73 + 828.52 + 359.25 + 1072.56\}$
 = $700 \times 5151.08 = 3605756$
60. (3) Total population in all six cities = 7000000
 Total females in all six cities
 = $7000000 - 3605756 = 3394244$
 $\therefore \text{Reqd}\% = \left(\frac{3394244}{7000000} \times 100 \right)\%$
 = 48.489% \approx 48.5%
61. (3) Let the unit's digit be y and ten's digit be x
 $\therefore \text{Number} = 10x + y$
 $\therefore \text{New number after interchange} = 10y + x$
 As given,
 $10y + x - 10x - y = 18$
 $\Rightarrow 9(y - x) = 18$
 $\Rightarrow y - x = 2 \dots(i)$
 Again, $x + y = 8 \dots(ii)$
 From (i) and (ii)
 $2y = 10$
 $\Rightarrow y = 5$

- $\therefore x = 3$ [From (i)]
 $\therefore \text{Required number} = 10x + y = 10 \times 3 + 5 = 35$
62. (4) Let original fraction be $\frac{x}{y}$.
 According to the question,
 $\frac{x \times \frac{450}{100}}{\frac{400}{100}} = \frac{9}{22}$
 $y \times \frac{450}{100} = \frac{9 \times 400}{22}$
 $\Rightarrow \frac{x \times \frac{9}{2}}{y \times 4} = \frac{9}{22}$
 $\Rightarrow \frac{x}{y} = \frac{9 \times 8}{9 \times 22} = \frac{4}{11}$
63. (2) (i) choose four questions from first five questions
 = ${}^5C_4 \times {}^8C_6$
 = $5 \times 28 = 140$
 (ii) choose five questions from first five questions
 = ${}^5C_5 \times {}^8C_5$
 = $1 \times 56 = 56$
 Total number of ways = $140 + 56 = 196$
64. (4) \therefore C.P. of 12 eggs = ₹ 3.75
 \therefore C.P. of 1600 eggs
 = $\frac{3.75 \times 1600}{12} = ₹ 500$
 S.P. of 900 eggs = $\frac{1}{2} \times 900 = ₹ 450$
 S.P. of remaining 700 eggs = $\frac{2}{5} \times 700 = ₹ 280$

Total S.P. = $450 + 280 = ₹ 730$

Gain = $730 - 500 = ₹ 230$

\therefore Gain per cent = $\frac{230}{500} \times 100 = 46\%$

65. (5) According to the question, Distance covered by Sonu in 8 hrs.

= $6 \times 8 = 48$ km

\therefore Distance covered by Monu in 8 hrs.

= $(114 - 48)$ km = 66 km

\therefore Speed of Monu = $\frac{66}{8}$ kmph = $8\frac{1}{4}$ kmph

66. (4) I. $x^2 + 5x + 6 = 0$

$\Rightarrow x^2 + 2x + 3x + 6 = 0$

$\Rightarrow x(x + 2) + 3(x + 2) = 0$

$\Rightarrow (x + 3)(x + 2) = 0$

$\therefore x = -3$ or -2

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

$\Rightarrow y^2 + 2y + y + 2 = 0$

$\Rightarrow y(y + 2) + 1(y + 2) = 0$

$\Rightarrow (y + 1)(y + 2) = 0$

$\therefore y = -1$ or -2

Clearly, $x \leq y$

67. (2) I. $x^2 - 10x + 24 = 0$

$\Rightarrow x^2 - 6x - 4x + 24 = 0$

$\Rightarrow x(x - 6) - 4(x - 6) = 0$

$\Rightarrow (x - 4)(x - 6) = 0$

$\therefore x = 4$ or 6

II. $y^2 - 9y + 20 = 0$

$\Rightarrow y^2 - 5y - 4y + 20 = 0$

$\Rightarrow y(y - 5) - 4(y - 5) = 0$

$\Rightarrow (y - 4)(y - 5) = 0$

$\therefore y = 4$ or 5

$\therefore x \geq y$

68. (4) I. $x^2 = 961 = \pm 31$

II. $y = \sqrt{961} = 31$

69. (5) I. $x^2 - x - 72 = 0$

$\Rightarrow x^2 - 9x + 8x - 72 = 0$

$\Rightarrow x(x - 9) + 8(x - 9) = 0$

$\Rightarrow (x + 8)(x - 9) = 0$

$\therefore x = -8$ or 9

II. $y^2 = 64$

$\Rightarrow y = \pm 8$

70. (5) I. $x^2 = 463 + 321 = 784$

$\therefore x = \pm 28$

II. $y^2 = 308 + 421 = 729$

$\therefore y = \pm 27$

ENGLISH

71. (5) Refer the first sentence of the last paragraph.
72. (3) Refer the fourth sentence of the second paragraph
73. (5) It simply means that demand has no short-term effect on oil price.
74. (1) While option (i) has been contradicted in the last paragraph, there has not been any co-relation between renewable and non-renewable sources of energy in terms of price.
75. (3) Refer the last sentence of the second paragraph.
86. (1) Replace 'began' with 'begun' (have + v³).
87. (1) Replace "in spite that" with 'though'.
89. (5) Replace 'invested' with 'investing'.
90. (4) Replace 'their' with 'its' (used for 'airline').

VOCABULARIES

Words	Meaning in English	Meaning in Hindi
Hitherto	until now	अब तक
Speculation	investment in stocks	सट्टेबाजी
Escalation	a rapid increase	अचानक बढ़ना
Manifold	many and various	विविध
Prosperity	the state of being prosperous	समृद्धि
Fluctuated	rise and fall irregularly	उतार-चढ़ाव
Exploration	investigation	अन्वेषण
Drastic	likely to have a strong or far-reaching effect	उग्र, सख्त
Inculcate	instill (an attitude, idea, or habit) by persistent instruction	मन में बैठाना
Fuelling	supply or power (an industrial plant, vehicle, or machine) with fuel	भड़काना
Instil	put (a substance) into something in the form of liquid drops	टपकाना
Dent	a slight hollow in a hard	गड्ढा, काटने का निशान
Compatibly	(of two things) able to exist or occur together without conflict	अनुकूल
Energise	give vitality and enthusiasm to	उत्साहित
Anesthetized	to make a person unable to feel pain	बेहोश कर देना
Sheer	unmitigated	परिपूर्ण
Enthusiast	a person who is highly interested in a particular activity or subject	उत्साहशील मनुष्य
Nourish	provide with the food or other substances necessary for growth, health, and good condition	पालन-पोषण करना

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IBPS PO SPECIAL PHASE-I MOCK TEST- 320 (ANSWER KEY)

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