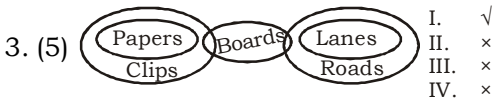
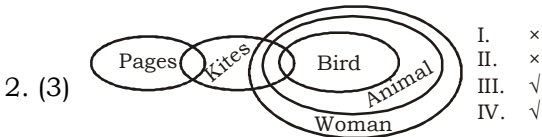
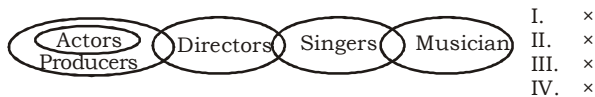


BANK PO PHASE-I MOCK TEST-28 (SOLUTION)

REASONING



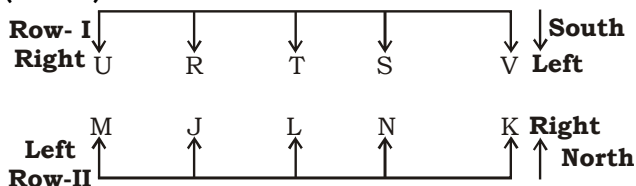
4. (1)



6. (3) The code for 'ideas' is 'gi'
7. (4) The code 'fa' stands for 'and'
8. (2) fa ⇒ and
lo ⇒ may be code for innovate
ba ⇒ create
9. (2) The code for 'new' is 'ri'
10. (4) insights ⇒ jo
always ⇒ sha
better ⇒ ki/to

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

(16-20) :



16. (1) 17. (3) 18. (1)
19. (1) 20. (5)

(21-25);

Input: 32 proud girl beautiful 48 55 97 rich
family 61 72 17 nice life

Step I: beautiful 17 32 proud girl 48 55 97
rich family 61 72 nice life

Step II: family 32 beautiful 17 proud girl 48 55
97 rich 61 72 nice life

Step III: girl 48 family 32 beautiful 17 proud 55
97 rich 61 72 nice life

Step IV: life 55 girl 48 family 32 beautiful 17
proud 97 rich 61 72 nice

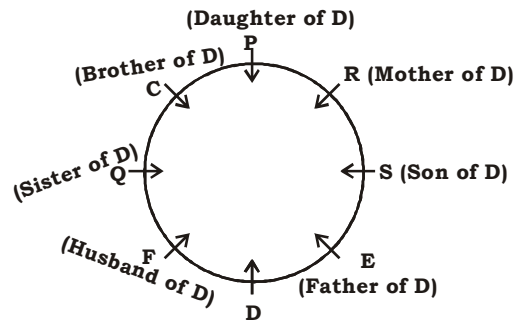
Step V: nice 61 life 55 girl 48 family 32 beautiful
17 proud 97 rich 72

Step VI: proud 72 nice 61 life 55 girl 48 family 32
beautiful 17 97 rich

Step VII: rich 97 proud 72 nice 61 life 55 girl 48
family 32 beautiful 17

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

(26 - 30) :



26. (2) 27. (4) 28. (3)
29. (1) 30. (5) 31. (4)
32. (1) 33. (1) 34. (2)
35. (5)

MATHS

36. (1) ? = 11.304 × (6.839 - 4.331)
 ? = 11.304 × 2.508 ≈ 30
37. (2) ? = 61 × 24.879 ÷ (14.059 - 6)
 ? = $\frac{61 \times 24.879}{8.059} = \frac{1517.6}{8.059} \approx 190$
38. (5) ? = (3.805)² × 14.018 - 5.991
 ? = 14.5 × 14.018 - 5.991
 ? = 203.261 - 5.991 ≈ 200
39. (3) ? = $\sqrt{230} \div 2.017 + 58.794$
 ? = $\frac{15.2}{2.017} + 58.794$
 ? = 7.5 + 58.794 ≈ 68

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40. (1) $? = \frac{3451}{9.895} \times 3.0126$
 $\Rightarrow ? = 348.8 \times 3.0126 \approx 1050$
41. (3) Percentage of Science graduate employees in company N = $(100 - 31 - 40)\% = 29\%$
 \therefore Required difference = $700 \times (40 - 29)\%$
 $= 700 \times \frac{11}{100} = 77$
42. (2) Let total number of employees in company Q = x
 Total number of Arts and Commerce graduate employees in company Q = $2 \times 312 = 624$
 Percentage of Arts graduate in company Q = $(100 - 35 - 50\%) = 15\%$
 According to question, $x \times \frac{65}{100} = 624$
 $x = 960$
43. (1) Total percentage of Commerce and Arts graduate employees in company M = $(100 - 32)\% = 68\%$
 Number of Commerce and Arts graduate employees in company M = $1050 \times \frac{68}{100} = 714$
 Number of Arts graduate employees = $714 \times \frac{7}{17} = 294$
44. (3) Total employees in company N in December 2013 = $700 \times \frac{120}{100} = 840$
 \therefore Total of Science graduate employees = $840 \times \frac{20}{100} = 168$
45. (4) Let number of employees in company O = X
 Number of employees in company P = $3x$
 According to question,

$$\frac{3x \times 20}{100} - \frac{x \times 40}{100} = 180$$

$$\Rightarrow 60x - 40x = 18000$$

$$\Rightarrow 20x = 18000$$

$$\Rightarrow x = 900$$
46. (5) Probability that first ball is red = $\frac{6}{22} = \frac{3}{11}$
 Probability that second ball is yellow = $\frac{11}{21}$
 \therefore Required probability = $\frac{3}{11} \times \frac{11}{21} = \frac{1}{7}$

47. (1) Let radius of cylinder = r m
 Height of cylinder = $(19 - r)$ m
 Total surface area of cylinder = $2\pi R(R + H)$

$$1672 = 2 \times \frac{22}{7} \times r(r + 19 - r)$$

$$38 \times 7 = r \times 19$$

$$r = 14\text{m}$$
 \therefore Volume of cylinder = $\pi R^2 H$

$$= \frac{22}{7} \times (14)^2 \times (19 - 14)$$

$$= 3080 \text{ m}^3$$
48. (2) Speed of boat downstream

$$= \frac{42}{2 + \frac{20}{60}} = \frac{42}{2 + \frac{1}{3}}$$

$$= \frac{42 \times 3}{6 + 1} = \frac{42 \times 3}{7}$$

$$= 18 \text{ km/h.}$$
 \therefore Speed of boat upstream = $18 \times \frac{2}{3} = 12 \text{ km/h.}$
 Speed of still water = $\frac{18 + 12}{2} = 15 \text{ km/h}$
49. (3) $M_1 D_1 = M_2 D_2$
 $24 M \times 18 = 30 W \times 12$
 $6 M = 5 W$
 $16 M + 24 W = 16 \times \frac{5W}{6} + 24 W$

$$= \frac{80W + 144W}{6} = \frac{224W}{6} \dots(i)$$
 According to question

$$\frac{224W}{6} \times D = 30 W \times 12$$

$$D = 9 \frac{9}{14} \text{ days}$$
50. (2) Let cost price of an article = ₹ x
 According to questions
 $(x - 6800) = 2(7850 - x)$
 $x - 6800 = 15700 - 2x$
 $3x = 22500$
 $x = ₹ 7,500/-$
 \therefore Required price of an article

$$= 7500 \times \frac{120}{100} = ₹ 9,000/-$$

51. (2) $8 \times \frac{3}{2} = 12$

$$12 \times \frac{3}{2} = 18$$

$$18 \times \frac{3}{2} = 27$$

$$27 \times \frac{3}{2} = 40.5$$

52. (4) $13 \times 1 + 3^2 = 22$

$$22 \times 2 + 2^3 = 52$$

$$52 \times 3 + 3^2 = 165$$

$$165 \times 4 + 2^3 = 668$$

53. (1) $7 \times 1 + 1 = 8$

$$8 \times 2 + 2 = 18$$

$$18 \times 3 + 3 = 57$$

$$57 \times 4 + 4 = 232$$

54. (5) $7 + 4 = 11$

$$11 + 8 = 19$$

$$19 + 16 = 35$$

$$35 + 32 = 67$$

55. (3) $5 \times 2 + 1 = 11$

$$11 \times 2 + 1 = 23$$

$$23 \times 2 + 1 = 47$$

$$47 \times 2 + 1 = 95$$

56. (1) $A : B : C = (20000 \times 6 + 12000 \times 6) : (28000 \times 6 + 20000 \times 6) : (36000 \times 6 + 44000 \times 6)$

$$= (20000 + 12000) : (28000 + 20000) : (36000 + 44000)$$

$$= (20 + 12) : (28 + 20) : (36 + 44)$$

$$= 8 : 12 : 20 = 2 : 3 : 5$$

Let total profit = ₹ x

$$\frac{5}{10} x = 12550$$

$$x = ₹ 25,100/-$$

57. (1) When taps P and X are opened,

$$\frac{1}{6} - \frac{1}{X} = \frac{1}{15}$$

$$\frac{1}{X} = \frac{1}{6} - \frac{1}{15} = \frac{15-6}{15 \times 6}$$

$$\frac{1}{X} = \frac{9}{15 \times 6}$$

$$X = 10$$

∴ Filled part of tank in 1 hour by taps Q

$$\text{and } X = \frac{1}{8} - \frac{1}{10} = \frac{1}{10 \times 8} = \frac{1}{40}$$

∴ Required time = 40 hours

58. (3) $A : B = 3 : 8$

$$B : A = 8 : 3$$

$$A : C = 1 : 4$$

$$A : B : C = 3 : 8 : 12$$

Let present ages of A, B and C are $3x$, $8x$ and $12x$ respectively.

According to questions,

$$3x + 8x + 12x - 3 - 3 - 3 = 83$$

$$23x = 83 + 9$$

$$23x = 92$$

$$x = 4$$

$$\therefore \text{Present age of C} = 12x$$

$$= 12 \times 4$$

$$= 48 \text{ years}$$

59. (1) Let invested amount in scheme A = x

Invested amount in scheme B = $3x$

According to question,

$$\frac{x \times 4 \times 8}{100} + \frac{3x \times 2 \times 13}{100} = 1320$$

$$\Rightarrow 32x + 78x = 132000$$

$$\Rightarrow 110x = 132000$$

$$\Rightarrow x = ₹ 1,200/-$$

60. (5) Let of Kim = x km/h

Speed of Om = y km/h

According to question,

$$\frac{400}{x} - \frac{400}{y} = 1$$

$$\frac{1}{x} - \frac{1}{y} = \frac{1}{400} \quad \dots(i)$$

When Kim doubles her speed,

$$\frac{400}{y} - \frac{400}{2x} = \frac{3}{2}$$

$$\frac{1}{y} - \frac{1}{2x} = \frac{1}{400} \times \frac{3}{2} \quad \dots(ii)$$

On solving equations (i) and (ii), $x = 80$ km/h

61. (2) Total number of females in colonies A, B and C together

$$= \left(\frac{1250 \times 36}{100} + \frac{2050 \times 30}{100} + \frac{1800 \times 42}{100} \right)$$

$$= (450 + 615 + 756) = 1821$$

62. (2) Number of children in colony

$$A = \frac{1250 \times 30}{100} = 375$$

Number of children in colony

$$E = \frac{1620 \times 20}{100} = 324$$

$$\text{Required percentage} = \frac{375}{324} \times 100 \approx 116$$

63. (5) Required ratio = 50 : 30 = 5 : 3
64. (1) Average number of residents from all the colonies together
- $$= \frac{1250 + 2050 + 1800 + 1150 + 1620}{5}$$
- $$= \frac{7870}{5} = 1574$$
65. (1) Required difference
- $$= (38 - 26)\% \text{ of } 1150$$
- $$= \frac{12 \times 1150}{100} = 138$$
66. (4) I. $16a^2 = 1 \Rightarrow a = \pm \frac{1}{4}$
- II. $3b^2 + 7b + 2 = 0$
- $$\Rightarrow (b + 2)(3b + 1) = 0 \Rightarrow b = -2 \text{ or } -\frac{1}{3}$$
- $$\Rightarrow a > b$$
67. (5) I. $a^2 + 5a + 6 = 0$
- $$\Rightarrow (a + 2)(a + 3) = 0 \Rightarrow a = -2 \text{ or } -3$$
- II. $b^2 + 7b + 12 = 0$
- $$\Rightarrow (b + 3)(b + 4) = 0 \Rightarrow b = -3 \text{ or } -4$$
- $$\therefore a \geq b$$
68. (3) I. $a^2 + 2a + 1 = 0$
- $$\Rightarrow (a + 1)^2 = 0 \Rightarrow a = -1$$
- II. $b^2 = \pm 4 \Rightarrow b = \pm 2 \text{ or } \pm 2i$
- $$\therefore \text{The relationship between } a \text{ and } b \text{ cannot be established.}$$
69. (2) I. $a^2 - 5a + 6 = 0$
- $$\Rightarrow (a - 2)(a - 3) = 0 \Rightarrow a = 2 \text{ or } 3$$

- II. $2b^2 - 13b + 21 = 0$
- $$\Rightarrow (b - 3)(2b - 7) = 0 \Rightarrow b = 3 \text{ or } \frac{7}{2}$$
- $$\therefore a \leq b$$
70. (1) I. $2a^2 + a - 1 = 0$
- $$\Rightarrow (a + 1)(2a - 1) = 0$$
- $$\Rightarrow a = -1 \text{ or } \frac{1}{2}$$
- II. $12b^2 - 17b + 6 = 0$
- $$\Rightarrow (4b - 3)(3b - 2) = 0 \Rightarrow b = \frac{3}{4} \text{ or } \frac{2}{3}$$
- $$\therefore a < b$$

ENGLISH LANGUAGE

- | | | |
|---|---------|----------|
| 71. (1) | 72. (4) | 73. (3) |
| 74. (5) | 75. (3) | 76. (4) |
| 77. (3) | 78. (4) | 79. (1) |
| 80. (2) | | |
| 81. (1) Replace 'design' with 'designed' | | |
| 82. (4) Replace 'to' with 'for' | | |
| 83. (3) Replace 'considerable' with 'considering' | | |
| 84. (5) No error. | | |
| 85. (1) Replace 'Having' with 'Being' | | |
| 86. (4) | 87. (2) | 88. (5) |
| 89. (1) | 90. (3) | 91. (1) |
| 92. (4) | 93. (5) | 94. (2) |
| 95. (3) | 96. (1) | 97. (5) |
| 98. (2) | 99. (4) | 100. (3) |

VOCABULARIES

Word	Meaning in English	Meaning in Hindi
Easing	The act of reducing something unpleasant	मुक्त
Downplay	Represent as less significant or important	महत्व कम करके बताना
Subsequent	Following in time or order	आगामी
Hover	To stay close to something, or to stay in an uncertain state	आस-पास होना
Implication	Something that is inferred (deduced or entailed or implied)	अनुमान
Loom	Hang over, as of something threatening, dark, or menacing	सम्भावना होना
Complementary	Acting as or providing a complement (something that completes the whole)	अनुपूरक
Unleash	Release or vent	उन्मुक्त करना
Cascading	A large number of things that happen quickly in a series	बारिश, वर्षा
Extract	To take or pull something out, especially when this needs force or effort	ऐंठना
Facilitate	Make easier	सुगम बनाना
Hinder	To make it difficult for somebody to do something or for something to happen	अड़चन डालना
Impending	Close in time; about to occur	जल्द ही होने वाला
Deplete	Use up (resources or materials)	खाली होना, खत्म होना
Imperative	Some duty that is essential and urgent	अत्यावश्यक
Sovereignty	Government free from external control	प्रभुता
Philately	The collection and study of postage stamps	डाक टिकट संग्रह
Commemorate	Recall and show respect for (someone or something) in a ceremony	स्मरण करना
Dispose	Arrange in a particular position	व्यवस्थित करना
Propagate	Spread and promote (an idea, theory, etc.) widely	प्रचार करना
Corroborate	Confirm or give support to (a statement, theory, or finding)	पुष्टि करना, समर्थन करना
Retrogression	The process of returning to an earlier state, typically a worse one	पहले की अवस्था में लौटने की क्रिया

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BANK PO PHASE -I MOCK TEST - 28 (ANSWER KEY)

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

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

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