

# BANK PO PHASE-I MOCK TEST-31 (SOLUTION)

## REASONING

1. (4) Given number: 7 5 3 6 8 2 1 9  
Ascending order: 1 2 3 5 6 7 8 9
2. (1)
3. (5) As,
- |    |    |    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|----|----|
| E  | C  | O  | N  | O  | M  | I  | C  | S  |
| ↓  | ↓  | ↓  | ↓  | ↓  | ↓  | ↓  | ↓  | ↓  |
| Z  | Y  | L  | L  | N  | K  | F  | Y  | N  |
| -5 | -4 | -3 | -2 | -1 | -2 | -3 | -4 | -5 |
- Similarly,
- |    |    |    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|----|----|
| I  | N  | S  | T  | I  | T  | U  | T  | E  |
| ↓  | ↓  | ↓  | ↓  | ↓  | ↓  | ↓  | ↓  | ↓  |
| D  | J  | P  | R  | H  | R  | R  | P  | Z  |
| -5 | -4 | -3 | -2 | -1 | -2 | -3 | -4 | -5 |

4. (3) FOREIGN
1. E G  
2. R N
- Only these two values are possible in the word FOREIGN.
5. (4) C \_ \_ \_ \_ \_  
Either E will be right or left side of C.
- C \_ \_ \_ \_ W \_  
or  
W \_ \_ \_ \_ C \_ \_ \_ \_
- So in that condition we cannot decide the position of W.

**Solutions (6-10) :** In the given set of input/output question the logic is :

First, out of the three word-number combirat the smallest number along with the word following it is shifted to the left most side, then the largest number along with the word following it is shifted alternatively to left side and so on. After all the numbers are shifted the remaining words are arranged alphabetically.

**Input : "Rahul Needs 31 English 18 Hindi And 24 Science Books".**

**Step I:** 18 Hindi Rahul needs 31 English And 24 Science books

**Step II:** 18 Hindi 31 English Rahul Needs And 24 Science Books

**Step III:** 18 Hindi 31 English 24 Science Rahul Needs And Books

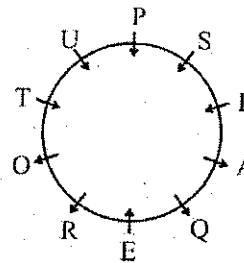
**Step IV:** 18 Hindi 31 English 24 Science And Rahul Needs Books

**Step V:** 18 Hindi 31 English 24 Science And Books Rahul Needs

**Step VI:** 18 Hindi 31 English 24 Science And Books Needs Rahul

6. (3)      7. (4)      8. (1)  
9. (3)

## Solutions (10-16) :



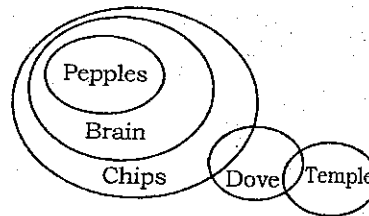
10. (2)      11. (5)      12. (1)  
13. (1)      14. (3)      15. (2)  
16. (3)

## Solutions (17-21) :

17. (4)      18. (4)      19. (1)  
20. (5)  
21. (5) By both statements we can say that Rajesh is second to the right of Umesh.
22. (1)      23. (4)      24. (4)  
25. (3)      26. (1)

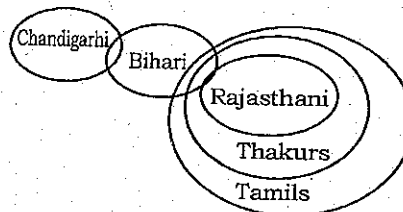
## (27-31) :

27. (4)

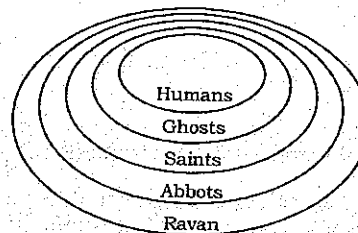


28. (1) Vegetables Fruit Salad Milk Poison

29. (2)



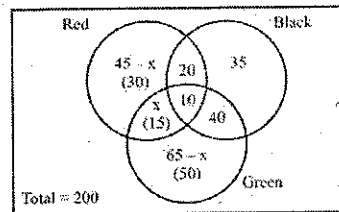
30. (3)





50. (3) Resultant profit =  $16 + 25 + \left(\frac{16 \times 25}{100}\right)$   
 = 45%

(51-55):



$45 - x + 20 + 35 + 10 + x + 40 + 65 - x = 200$   
 $215 - x = 200$   
 $x - 215 - 200 = 15$

51. (1)      52. (5)      53. (5)  
 54. (4)      55. (2)

**Solutions (56-60):**

56. (2) Saving of A =  $\frac{60^\circ}{360^\circ} \times 450000 = 75000$

Saving of B =  $\frac{30^\circ}{360^\circ} \times 540000 = 45000$

Total =  $75000 + 45000 = 120000$

57. (3) The amount spent on clothes by

$A = \frac{40^\circ}{360^\circ} \times 450000 = 50000$

The amount spent on clothes by

$B = \frac{50^\circ}{360^\circ} \times 540000 = 75000$

$\therefore \text{Ratio} = \frac{50000}{75000} = \frac{2}{3} = 2 : 3$

58. (5) The amount spent on food by

$B = \frac{120^\circ}{360^\circ} \times 540000 = 180000$

Education of A =  $\frac{80^\circ}{360^\circ} \times 450000 = 100000$

$\therefore \% = \frac{180000}{100000} \times 100 = 180\%$

59. (3) The amount spent on house rent of A =

$\frac{70^\circ}{360^\circ} \times 450000 = 87500$

The amount spent on rent of B =  $\frac{70^\circ}{360^\circ} \times 540000 = 112500$

$\therefore \text{Average} = \frac{112500 + 87500}{2} = \frac{200000}{2}$

= 100000 = 1 lakh

60. (4) The amount spent on education by

$B = \frac{85^\circ}{360^\circ} \times 540000 = 127500$

The amount spent on education by

$A = \frac{85^\circ}{360^\circ} \times 450000 = 100000$

$\therefore \% = \frac{127500 - 100000}{100000} \times 100$

=  $\frac{27500}{100000} \times 100 = 27.5$

**Solutions (61-65):**

Year	Food	Education
2001	Rs 2400	Rs 1600
2002	Rs 2420	Rs 1980
2003	Rs 2500	Rs 2500
2004	Rs 36,40	Rs 1960
2005	Rs 2700	Rs 3300

61. (4)      62. (1)      63. (4)

64. (5)      65. (3)

**Solutions (66-70):**

66. (5) I.  $35x^2 - 99x + 70 = 0$   
 $(7x - 10)(5x - 7) = 0$

$x = \frac{10}{7}, \frac{7}{5}$

II.  $y^2 - \sqrt{2}y + \sqrt{6} = \sqrt{3}y$

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

$y = \sqrt{2} = 1.414$

$y = \sqrt{3} = 1.732$

relation can't be established

67. (5) I.  $28x - 41\sqrt{x} + 15 = 0$

$28x - 21\sqrt{x} - 20\sqrt{x} + 15 = 0$

$(4\sqrt{x} - 3)(7\sqrt{x} - 5) = 0$

$x = \frac{9}{16}, \frac{25}{49}$

II.  $40y - 57\sqrt{y} + 20 = 0$

$(5\sqrt{y} - 4)(8\sqrt{y} - 5) = 0$

$y = \frac{16}{25}, \frac{25}{64}$

68. (5) I.  $x^2 - 7\sqrt{2}x + 24 = 0$   
 $(x - 3\sqrt{2})(x - 4\sqrt{2}) = 0$   
 $x = 3\sqrt{2}, 4\sqrt{2}$

II.  $y^2 - 5\sqrt{3}y + 18 = 0$   
 $(y - 3\sqrt{3})(y - 2\sqrt{3}) = 0$   
 $y = 3\sqrt{3}, 2\sqrt{3}$

69. (3)  $x - 20\sqrt{x} + 99 = 0$   
 $(\sqrt{x} - 11)(\sqrt{x} - 9) = 0$   
 $x = 121, 81$

$y - 25\sqrt{y} + 156 = 0$   
 $(\sqrt{y} - 12)(\sqrt{y} - 13) = 0$   
 $y = 144, 169$

70. (5)  $x^2 - 15x + 44 = 0$   
 $(x - 4)(x - 11) = 0$   
 $x = 4, 11$

$y^2 - 8\sqrt{2}y + 30 = 0$   
 $(y - 3\sqrt{2})(y - 5\sqrt{2}) = 0$   
 $y = 3\sqrt{2}, 5\sqrt{2}$

**ENGLISH LANGUAGE**

- |         |         |          |
|---------|---------|----------|
| 71. (2) | 72. (4) | 73. (1)  |
| 74. (3) | 75. (4) | 76. (2)  |
| 77. (5) | 78. (4) | 79. (3)  |
| 80. (1) | 81. (2) | 82. (3)  |
| 83. (5) | 84. (3) | 85. (1)  |
| 86. (4) | 87. (4) | 88. (3)  |
| 89. (5) | 90. (5) | 91. (2)  |
| 92. (5) | 93. (4) | 94. (1)  |
| 95. (2) | 96. (1) | 97. (1)  |
| 98. (2) | 99. (1) | 100. (2) |