

# BANK PO PHASE-I MOCK TEST-32 (SOLUTION)

## REASONING

### Solutions (1-5) :

Gender	Teacher	Subject
Male	P	Reasoning
Male	Q	Geography
Female	R	Comuters
Male	S	English
Female	T	History
Male	U	Maths
Female	V	Economics

P is married to T and R is married to S.

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

### Solutions (6-10) :

6. (3) Authors main argument is that the use of modern farming technology such as use of chemical fertilizers and pesticide have helped India in green revolution but it also have harmful effects. Only option (3) strengthens this argument.
7. (3) The passage does not say anything about option (1), (2) or (5). Also nothing is mentioned about future, so we can eliminate (5). Only (3) is which can be inferred from the passage.
8. (4) Nothing is mentioned about (1), (2), (3) and (5). Only (4) can be the possible effect.
9. (3) (1) is an effect and not the cause. (2) and (4) are not rational. Study done a couple of years ago should not necessarily apply in present situation. Only (3) can be a suitable cause.
10. (2) The argument recommends that migraine sufferers should try to find the one trigger for their headaches and then avoid this trigger. This would still be a good plan even if the trigger did not always cause a headache - it is better to be safe than sorry - and so the best answer is (2).

### Solutions (11-15) :

In each step one word and one number are rearranged. The word which comes first in the dictionary is placed at the extreme left position followed by the lowest number. In the second step, the word which comes second in the dictionary is placed at the extreme left position followed by the second lowest number. The same process is

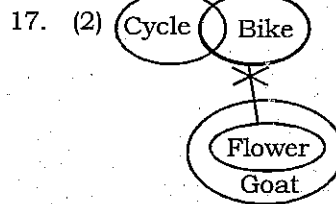
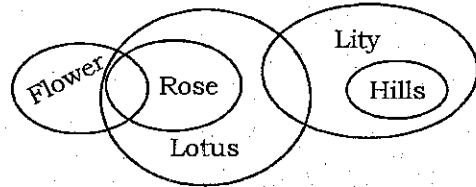
continued till all the words get rearranged in the reverse order of English alphabet and all the numbers get rearranged in descending order.

- 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

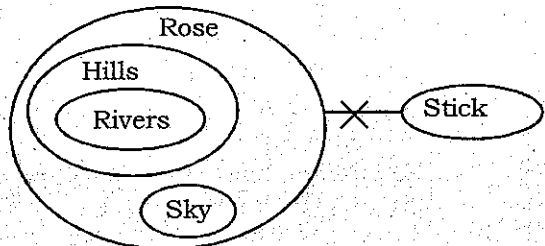
11. (3)      12. (4)      13. (3)  
 14. (1)      15. (2)

### Solutions (16-20) :

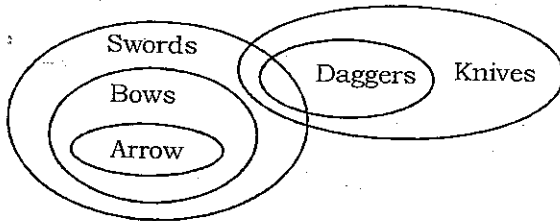
16. (4)



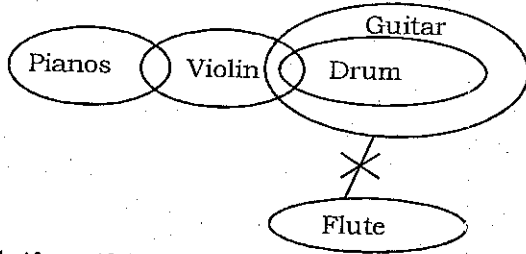
18. (1)



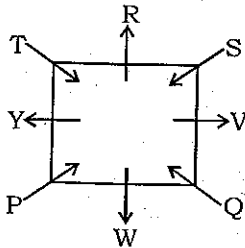
19. (3)



20. (5)



Solutions (21-25) :



21. (2)      22. (3)      23. (4)  
 24. (1)      25. (3)

26. (4) **Given statements :**

- $H \geq W < M$  ... (i)  
 $N = P > H$  ... (ii)  
 $K \leq L < N$  ... (iii)

Combining all these statements, we get

$$K \leq L < N = P > H \geq W < M$$

Thus,  $N > W$  is true

$M \geq N$  is not true.

$K = H$  is not true.

Again,  $L < P$  or  $P > L$  is true.

Hence only I and IV are true.

27. (2) **Given statements :**

$$G = C \geq P = T$$

$$U < N = J < G$$

Combining both statements, we get

$$U \leq N = J < G = C \geq P = T$$

Thus,  $U \leq P$  is not true.

Again,  $N < G$  or  $G > N$  is true.

$G \geq T$  is true.

$U < G$  is true.

Hence only II, III and IV are true.

28. (2) **Given statements :**

$$R \leq S < Q = P \quad \dots (i)$$

$$T = U > E \geq P \quad \dots (ii)$$

Combining both statements, we get

$$R \leq S < Q = P \leq E < U = T$$

Thus,  $S < T$  or  $T > S$  is true.

Hence  $(T < S)$  is not true.

$E < Q$  is not true.

$S < U$  is true.

$R < T$  or  $T > R$  is true.

Hence, only III and IV are true

29. (5) **Given statements :**

$$C \geq D = E < G \quad \dots (i)$$

$$L \geq T > N = G \quad \dots (ii)$$

Combining both statements, we get

$$C \geq D = E < G = N < T \leq L$$

Thus,  $D < T$  or  $T > D$  is true.

$E < L$  or  $L > E$  true.

$C \geq T$  is not true.

$D \leq E$  is not true.

Hence, only I and II are true

30. (4) **Given statements :**

$$W \leq V = Q < R$$

$$P > S = T \geq W$$

Combining both statements, we get

$$P > S = T \geq W \leq V = Q < R$$

Thus,  $P \leq Q$  is not true.

$S \leq V$  is not true.

$R \leq T$  is not true.

$P > V$  is not true.

Hence, none is true.

31. (4)      32. (5)      33. (1)  
 34. (3)      35. (2)

### Maths

36. (3) Let the number of boys = 300

The number of girls = 200

No. of students who are not adult

$$= 300 \times \frac{70}{100} + 200 \times \frac{25}{100}$$

% ge of student who are not adult

$$= \frac{360}{500} \times 100 = 72\%$$

$$37. (4) \text{ Work done by Ratan} = \frac{19}{23} + \frac{8}{23} - 1$$

$$= \frac{4}{23}$$

$$\text{Therefore, Wages of Ratan} = \frac{4}{23} \times 5750$$

$$= ₹ 1000$$

$$38. (3) \text{ In 1 min. water poured by Ramesh}$$

$$= \frac{5}{4} \text{ liter}$$

$$\text{In 1 min. water poured by Suresh} = \frac{4}{5} \text{ liter}$$

$$\text{In 1 min. water poured by both Ramesh}$$

$$\text{and Suresh} = \frac{41}{20} \text{ liter}$$

$$\text{In 1 hour they fill} = \frac{41}{20} \times 60 = 123 \text{ liters}$$

39. (5) After withdrawing 14 liters of mixture the ratio would be some.

A	B	New Ratio A : B
5 <sub>3</sub>	2 <sub>3</sub>	⇒ 15 6
3 <sub>5</sub>	4 <sub>5</sub>	⇒ 15 20
		+14 unit
		14 unit = 14 litre
		⇒ 1 unit = 1 litre

Total initial mixture = (15 + 6) unit + 14 litres  
 = 21 × 1 + 14  
 = 35 litre

$$\therefore \text{Liquid A} = \frac{35}{7} \times 5 = 28 \text{ litre}$$

40. (3) The terms are multiplied by 6, 5, 4, 3 and so on.

41. (3) 23 = 11 × 2 + 1; 48 = 23 × 2 + 2; 99 = 48 × 2 + 3; 202 = 99 × 2 + 4; and so on.

42. (2) All numbers are prime numbers with one prime number missing between any pair of consecutive terms.

43. (4) Failed in mathematics,  $n(1) = 34$   
 Failed in English,  $n(2) = 42$

$$\text{Now, } (A \cup B) = n(1) + n(2) - n(A \cap B) \\ = 34 + 42 - 20 = 56$$

It implies, students failed in either subjects or both are 56. thus,

$$\text{Percentage of students passed} = (100 - 56)\% \\ = 44\%.$$

44. (4) The relative speed = 92 - 72 = 20 km/h.  
 Now, The length of the two trains combined

$$= 20 \times \frac{5}{18} \times 90 = 500 \text{ m.}$$

$$\therefore \text{length of the each train} = \frac{500}{2} = 250 \text{ m.}$$

45. (1) According to the given statement  
 4 Men × 2 Days = 4 Women × 4 Days

$$\frac{1}{2} \text{ Men} = 1 \text{ Women}$$

And

$$4 \text{ Men} \times 2 \text{ Days} = 5 \text{ Children} \times 4 \text{ Days}$$

$$\frac{2}{5} \text{ Men} = 1 \text{ Child}$$

Therefore, 2 Men + 4 Women + 10 Children = 8 Men

2 Men + 4 Women + 10 Children will complete the work in =  $\frac{(4 \times 2)}{8} = 1$  day.

46. (4) According to question.

$$\frac{a}{5} = \frac{b}{9} = \frac{c}{16} = K \text{ (suppose)}$$

Then,  $a = 5k$ ,  $b = 9k$  and  $c = 16k$

$$\text{Now, } \frac{a+b+c}{a} = \frac{5K+9K+16K}{5K} = \frac{30K}{5K} = 6$$

47. (2)  $2 = \frac{x}{2} + \frac{x}{8}$

$$\frac{8 \times 2}{5} = x$$

$$3.2 \text{ km} = x$$

48. (4) Amount =  $P (1 + r_1/100) (1 + r_2/100) (1 + r_3/100)$   
 = ₹ 8353.80

49. (1)  $\frac{x \times 8 \times 5}{100} + \frac{x \times 10 \times 4}{100} + \frac{x \times 12 \times 3}{100} = 17,280 - x$

$$x = \frac{17280 \times 100}{216}$$

$$= 8000$$

50. (5) Using statement II,

It  $c$  is an even integer, then, out of the integers given in statement II,  $b$  and  $d$  are odd number.

51. (3) From I:  $x + (x + 2) = 18$  i.e.  $x = 8$

Hence, fourth consecutive even number is  $(x + 6) = 14$ .

$$\text{From II: } x + 4 + (x + 6) = 26 \text{ i.e. } x = 8$$

Hence, fourth consecutive even number is  $(x + 6) = 14$ .

52. (4) Even the combination of both statements will not be able to answer the question.

53. (5)  $8x - 5y = 7x - 4y$   
 $x = y = 200$

$$\text{Sum of their monthly income is} = 8x + 7x \\ = 15x = 3000$$

54. (4)  $B = 6c$   
 $A + 6C + C = 210 + A$

$$C = 30$$

$$B = 180$$

$$A + 180 = (180 + 30)$$

$$A = 630 - 180$$

$$A = 450$$

55. (4)  $\frac{m_1}{m_2} \times \frac{n_1}{n_2} = \frac{w_1}{w_2}$

$$m_1 = 24, \quad n_1 = 3, \quad w_1 = \frac{3}{16}$$

$$m_2 = x, \quad n_2 = 8, \quad w_2 = \frac{3}{16}$$

$$\text{Required men} = 39 - 24 = 15 \text{ men}$$

56. (1) m.p. = 800

$$\text{After Discount} = 800 \times \frac{90}{100} \times \frac{80}{100} = 576$$

$$\text{Total cp} = 576 + 224 = 800$$

He sold it at 800 so no gain no loss.

57. (4)  $\frac{25}{26} \times 100 \approx 96\%$

58. (5) No. of male in A = 16800

No. of male in B = 34650

No. of male in C = 52500

No. of male in D = 36400

No. of male in E = 10500

$$\text{Total number of male} = 150850$$

59. (4)

60. (3)  $\left(15 \times \frac{80}{100} - 18 \times \frac{45}{100}\right) \times 3500$   
 $= 13650$

61. (3)  $\frac{135800}{87150} \times 100 \approx 156\%$

62. (2) Let the speeds of the two trains be  $x$  m/sec and  $y$  m/sec respectively.

Then, length of the first train =  $27x$  metres, and length of the second train =  $17y$  metres.

$$\Rightarrow 27x + 17y = 23x + 23y$$

$$\Rightarrow 4x = 6y$$

$$\Rightarrow \frac{x}{y} = \frac{3}{2} = 3 : 2$$

63. (1) C's one day work =  $\frac{1}{3} - \left(\frac{1}{6} + \frac{1}{8}\right) = \frac{1}{3} - \frac{7}{24}$

$$= \frac{1}{24}$$

$$\text{A's wage} : \text{B's wage} : \text{C's wage} = \frac{1}{6} : \frac{1}{8} : \frac{1}{24}$$

$$= 4 : 3 : 1$$

$$\text{C's share for 3 days} = 3 \times \frac{1}{24} \times 3200$$

$$= ₹ 400$$

64. (1) Suppose he move 4 km downstream in  $x$  hours. Then,

$$\text{Speed downstream} = 4/x \text{ km/hr}$$

$$\text{Speed upstream} = 3/x \text{ km/hr.}$$

$$\frac{48}{x} + \frac{48}{x} = 14 \text{ or } x = \frac{1}{2}$$

So, Speed downstream = 8 km/hr, Speed upstream = 6 km/hr.

$$\text{Rate of the stream} = \frac{1}{2}(8 - 6) \text{ km/hr} = 1 \text{ km/hr.}$$

65. (4)  $\frac{6 \times 1}{250} = \frac{2 \times 60}{x}$

$$x = \frac{2 \times 60 \times 250}{6}$$

$$x = 5000$$

66. (3)  $l = 20 \text{ ft}$

$$20 \times b = 640$$

$$b = 32$$

$$\text{Length of fencing} = [l + 2b] = [20 + 64] = 84 \text{ ft}$$

67. (2) Required ratio = 7150 : 4800 = 143:96

68. (3) Required total number of sales = 5.5 + 3.5 + 7.5 + 5.6 + 6.3 + 3.5 = 31900

69. (1) Cinema P's sales = 62.45

Cinema Q sales = 55

Cinema R sales = 31.9

Cinema S sales = 53.8

Cinema T sales = 36.4

70. (3) Required difference = 12.6 - 6.3 = 6.3

#### ENGLISH LANGUAGE

71. (2) 72. (5) 73. (1)

74. (5) 75. (3) 76. (4)

77. (1) 78. (4) 79. (1)

80. (2) 81. (2) 82. (2)

83. (3) Replace 'what' by 'which'.

84. (2)

85. (4)

86. (3) 87. (5) 88. (3)

89. (3) 90. (2) 91. (4)

92. (3) 93. (1) 94. (5)

95. (4) 96. (2) 97. (1)

98. (4) 99. (3) 100. (5)