

### RRB MOCK-4 SOLUTION

1. **Statements :**  $F < R < L < S > O$

**Conclusions :** I.  $F < S \rightarrow$  True  
II.  $O > R \rightarrow$  true

2. **(b) ; Statements :**  $U \leq C = N < Q \geq J$

**Conclusions :** I.  $Q > U \rightarrow$  True  
II.  $C < J \rightarrow$  False

3. **(a) ; Statements ;**  $G \geq R = O \geq W$

**Conclusions :**  
I.  $G > W$   
II.  $W = G$  } *Either I or II*

4. **(e) ; Statements :**  $K > E \geq R = A$

$E < B$   
 $B > E \geq R = A$

**Conclusions :** I.  $K = A \rightarrow$  False  
II.  $A < B \rightarrow$  True

5. **(d) ; Statements :**  $D = O < L \leq P > H$

**Conclusions :** I.  $P < D \rightarrow$  False  
II.  $O > H \rightarrow$  False

Ans. (6-10) :

6. (b) 7. (a) 8. (b) 9. (b) 10. (e)

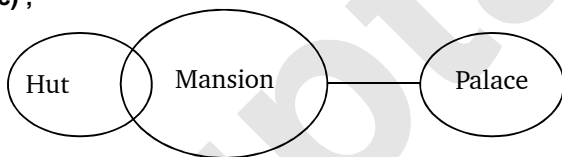


Ans. (11-12) :

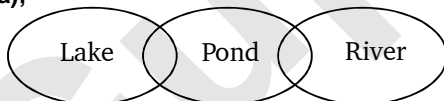
11. (c)

12. (a)

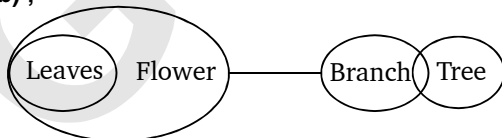
13. (c) ;



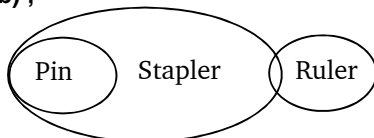
14. (a) ;



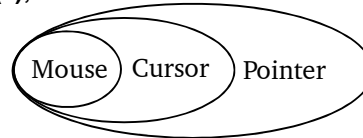
15. (b) ;



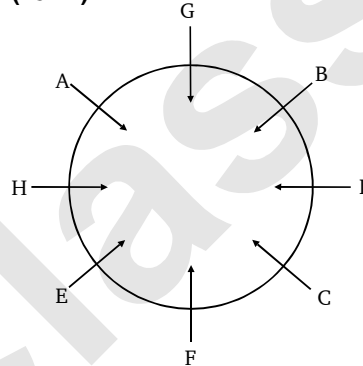
16. (b) ;



17. (c) ;



Ans. (18-22) :



18. (a) ; 19. (b) ; 20. (d) ; 21. (e) ; 22. (c) ;

23. (a) ;  $M 7 \Sigma 8 L P @ ? 6 N B T Y 3 2 = E \$ 4 9 \textcircled{C} G H 5$

24. (b) ;  $M 7 \Sigma 8 L P @ ? 6 N B T Y 3 2 = E \$ 4 9 \textcircled{C} G H 5$

25. (b) ;

According to question, deleting all the symbols  
 $M 7 8 L P 6 N B T Y 3 2 E 4 9 G H 5$

26. (c) ;

27. (d) ;

According to question, deleting all numbers  
 $M \Sigma L P @ ? N B T Y = E \$ \textcircled{C} G H$

28. (b) ;

29. (c) ; According to question, arranging all digits of given numbers in ascending order,

684	512	437	385	<b>296</b>
↓	↓	↓	↓	↓
864	521	743	853	962

30. (a) ;

Highest number = 684  
Second lowest number = 385  
 $\therefore$  Required number =  $\frac{8}{4} = 2$

31. (e) ;

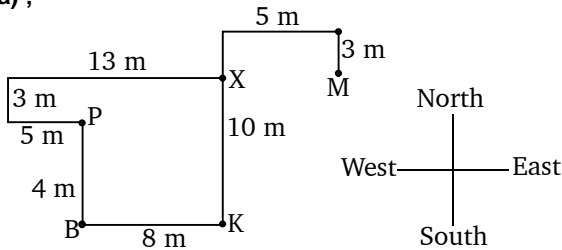
According to question,

32. (a) ; According to question,

Ans. (33-34) :

33. (e) ; 34. (b)

35. (a) ;



36. (c) ;

37. (c) ;

38. (a) ;

M O D E L     D E A R  
 ↓ ↓ ↓ ↓ ↓     ↓ ↓ ↓  
 5 1 3 # 2     3 # % 8  
 Similarly,  
 L O A D  
 ↓ ↓ ↓ ↓  
 2 1 % 3

39. (d) ;

40. (c) ;

5 9 1 6 4 8 2 3

In descending order → 9 8 6 5 4 3 2 1

41. (d) ;

Required amount =  $\frac{4601 - 13}{37} = \text{Rs. } 124/-$

42. (b) ;

43. (a) ;

44. (d) ;

45. (c) ;

46. (e) ;

47. (a) ;

Required number of ways

$$= {}^5 C_1 \times {}^4 C_2 + {}^5 C_2 \times {}^4 C_1 + {}^5 C_3$$

$$= \frac{5!}{4!} \times \frac{4!}{2!2!} + \frac{5!}{2!3!} \times \frac{4!}{3!} + \frac{5!}{3!2!}$$

$$= 5 \times 6 + 10 \times 4 + 10 = 80$$

48. (d) ;

Amit's Father's age =  $2x$

According to question,

$$\frac{2x + 4}{5x + 4} = \frac{5}{11}$$

Required Amit's father's age

$$= 5x - 5$$

$$= 35 \text{ years}$$

49. (d) ;

50. (a) ;

Let cost price be Rs.  $x$ .

According to question,

$$x = 15000 \times \frac{90}{100} \times \frac{100}{108}$$

$$= \text{Rs. } 12,500 / -$$

51. (e) ;

Let cost of 1 pen = Rs.  $x$

Cost of 1 pencil = Rs.  $y$

According to question,

$$8x + 4y = 176 \quad \dots (i)$$

$$\text{and } 2x + 2y = 48 \quad \dots (ii)$$

On solving equation (i) and (ii), we have

$$x = 20$$

$$y = 4$$

52. (b) ;

$$\text{Total number of ways} = \frac{5!}{2!}$$

$$= 5 \times 4 \times 3 = 60$$

$$53. (e) ; \text{ Radius of circle} = \sqrt{\frac{616}{\pi}} = 14 \text{ cm}$$

$$= 88 \text{ cm}$$

54. (b) ;

(B + C)'s one day's work

$$= \frac{1}{8}$$

(A + B)'s one day's work

$$= \frac{1}{12}$$

(A + C)'s one day's work

$$= \frac{1}{16}$$

∴ (A + B + C)'s one day's work

$$= \frac{1}{2} \left[ \frac{1}{8} + \frac{1}{12} + \frac{1}{16} \right]$$

$$= \frac{1}{2} \times \frac{6 + 4 + 3}{48}$$

55. (c) ; Required compound interest

$$= 10000 \left[ \left( 1 + \frac{20}{200} \right)^4 - 1 \right]$$

$$= \frac{10000(11^4 - 10^4)}{10^4}$$

$$= 21 \times 221 / -$$

$$= \text{Rs. } 4.641$$

56. (d) ; Let C's income be Rs.  $x$ .

$$\therefore \text{A's income} = x \times \frac{100}{120}$$

$$= \text{Rs. } \left( \frac{5x}{6} \right)$$

$$\text{B's income} = \frac{5x}{6} \times \frac{100}{150}$$

$$= \text{Rs. } \left( \frac{5x}{9} \right)$$

According to question,

$$x + \frac{5x}{6} + \frac{5x}{9} = 86000$$

$$\Rightarrow \frac{18x + 15x + 10x}{18} = 86000$$

$$\Rightarrow x = \frac{86000 \times 18}{43}$$

$$= \text{Rs. } 36,000/-$$

57. (c) ;

Required difference

$$= (145 + 177) - (89 + 112)$$

$$= 322 - 201 = 121$$

58. (d) ;

Total number of male members in health club A, B and C together in 2008

$$= (119 + 124 + 132) \times \frac{44}{100}$$

$$= 375 \times \frac{44}{100} = 165$$

59. (e) ; Required increased percentage

$$= \frac{238 - 136}{136} \times 100$$

$$= \frac{10200}{136} = 75\%$$

60. (d) ; The average number of members in health club

B, C and E in 2010

$$= \frac{185 + 112 + 135}{3}$$

$$= \frac{432}{3} = 144$$

61. (a) ;

Required ratio

$$= (116 + 139) : (127 + 218)$$

$$= 255 : 345$$

$$= 17 : 23$$

62. (b) ;

$$60\% \text{ of } 540 + 45\% \text{ of } ? = 468$$

$$\Rightarrow 540 \times \frac{60}{100} + ? \times \frac{45}{100} = 468$$

$$\Rightarrow 324 + ? \times \frac{45}{100} = 468$$

$$\Rightarrow ? \times \frac{45}{100} = 468 - 324$$

$$\Rightarrow ? \times \frac{45}{100} = 144$$

$$\Rightarrow ? = 320$$

63. (d) ;

$$60 \div 18 \times 54 - ? = 1260$$

$$\Rightarrow \frac{60}{18} \times 54 - ? = 1260$$

$$\Rightarrow 60 \times 30 - ? = 1260$$

$$\Rightarrow 1800 - ? = 1260$$

$$\Rightarrow ? = 1800 - 1260$$

$$\Rightarrow ? = 540$$

64. (d) ;

$$\sqrt{1849} + \sqrt{441} = 2^{16-?}$$

$$\Rightarrow 43 + 21 = 2^{16-?}$$

$$\Rightarrow 64 = 2^{16-?}$$

$$\Rightarrow 2^6 = 2^{16-?}$$

$$\Rightarrow 6 = 16 - ?$$

$$\Rightarrow ? = 10$$

65. (b) ;

$$(625.75 + 450.5 + ?) \times \frac{3}{5} = 750$$

$$\Rightarrow 1076.25 + ? = 1250$$

$$\Rightarrow ? = 1250 - 1076.25$$

$$\Rightarrow ? = 173.75$$

66. (d)

$$8^2 \times 7^2 \div \sqrt{196} - 143 = 3^?$$

$$\Rightarrow 64 \times 49 \div 14 - 143 = 3^?$$

$$\Rightarrow 224 - 143 = 3^?$$

$$\Rightarrow 3^4 = 3^?$$

$$\Rightarrow ? = 4$$

67. (c) ;

$$\left(\frac{4}{7} + 1\frac{3}{7} + \frac{3}{4}\right) \text{ of } ? = 693$$

$$\Rightarrow \left(\frac{4}{7} + \frac{10}{7} + \frac{3}{4}\right) \times ? = 693$$

$$\Rightarrow \left(\frac{16 + 40 + 21}{28}\right) \times ? = 693$$

$$\Rightarrow \frac{77}{28} \times ? = 693$$

$$\Rightarrow ? = 693$$

$$\Rightarrow ? = 252$$

68. (a) ;

$$\sqrt{108 \times 6 + 98 - 121} = ?^2$$

$$\Rightarrow \sqrt{648 - 23} = ?^2$$

$$\Rightarrow \sqrt{625} = ?^2$$

$$25 = ?^2$$

$$\Rightarrow 5^2 = ?^2$$

$$\Rightarrow ? = 5$$

69. (c) ;

$$(0.4 \times 450) \div 4 = 5 \times 3^?$$

$$\Rightarrow 180 \div 4 = 5 \times 3^?$$

$$\Rightarrow 45 = 5 \times 3^?$$

$$\Rightarrow 9 = 3^?$$

$$\Rightarrow 3^2 = 3^?$$

$$\Rightarrow ? = 2$$

70. (b) ;

$$20\% \text{ of } 225 + 75 = ?\% \text{ of } 150$$

$$\Rightarrow 225 \times \frac{20}{100} + 75 = 150 \times \frac{?}{100}$$

$$\Rightarrow 9 \times 5 + 75 = \frac{3}{2} \times ?$$

$$\Rightarrow 45 + 75 = \frac{3}{2} \times ?$$

$$\Rightarrow 120 = \frac{3}{2} \times ?$$

$$\Rightarrow ? = 80$$

71. (e) ;

$$\left(2\frac{2}{3} \times 6\frac{3}{4}\right) + ? = 3^3$$

$$\Rightarrow \left(\frac{8}{3} \times \frac{27}{4}\right) + ? = 27$$

$$\Rightarrow 2 \times 9 + ? = 27$$

$$? = 27 - 18$$

$$? = 9$$

72. (C) ;

$$? = \frac{127512}{414 \times 7} = 44$$

73. (e) ;

$$? = \frac{(84)^2 \times 12}{28 \times 24 \times 7} = 18$$

74. (e) ;

$$? = 134 \times \frac{79}{100} - 79 \times \frac{34}{100}$$

$$= 10.586 - 2.686 = 7.9$$

75. (b) ;

$$? = (3)^8 \times (3)^4 = 3^{12}$$

$$= (3^6)^2 = (729)^2$$

76. (b) ;

$$? = 24.424 + 5.656 + 1.131 + 0.089 = 31.3$$

77. (c) ;

$$\text{Third observation} = 3 \times 8 + 3 \times 6 - 5 \times 6$$

$$= 24 + 18 - 30$$

$$= 42 - 30 = 12$$

78. (b) ;

Let the sum invested in scheme A = Rs.  $x$  / -

According to question,

$$\frac{x \times 8 \times 4}{100} = \frac{4}{5} \times 4000 \left[ \left( 1 + \frac{1}{100} \right)^2 - 1 \right]$$

$$\frac{x \times 8 \times 4}{100} = 4 \times 800 \left[ \left( \frac{11}{10} \right)^2 - 1 \right]$$

$$\frac{x \times 8}{25} = 3200 \left[ \frac{121 - 100}{100} \right]$$

$$x = 25 \times 4 \times 21$$

$$x = \text{Rs. } 2,100/-$$

$$\Rightarrow$$

79. (e) ;

Let the side of equilateral triangle =  $8x$  meterSide of the square =  $11x$  meter

According to question,

$$4 \times 11x - 3 \times 8x = 40$$

$$\Rightarrow 44x - 24x = 40$$

$$\Rightarrow 20x = 40$$

$$\Rightarrow x = 2 \text{ m}$$

Side of the square =  $11 \times 2$ 

$$= 22 \text{ m}$$

$$\therefore \text{Area of the square} = (22)^2$$

$$= 484 \text{ m}^2$$

80. (e) ;

Suppose, B left the work after  $x$  days.

According to question,

$$\frac{x + 16}{30} + \frac{x}{40} = 1$$

$$\Rightarrow 4x + 64 + 3x = 120$$

$$\Rightarrow 7x = 56$$

$$\Rightarrow x = 8 \text{ days}$$