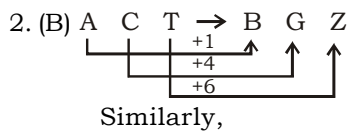
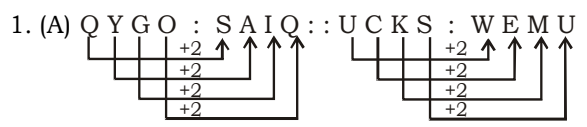
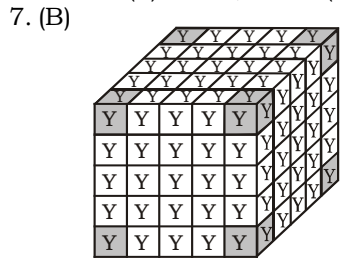


HARYANA SSC MOCK TEST-23 (Solutions)

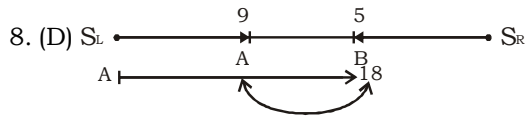


3. (C) By melting Liquid is formed or got. Like this by Freezing, Solid is formed.
 4. (D) Sun, Moon and Star are part of universe. Hence, universe is odd among these.
 5. (D) Mast, Bow and Deck are the name of different parts of ship. But Quay is not a part of ship.

6. (D) $(1)^3 = 1$, $(2)^3 = 8$
 $(4)^3 = 64$, $(3)^3 = 27$

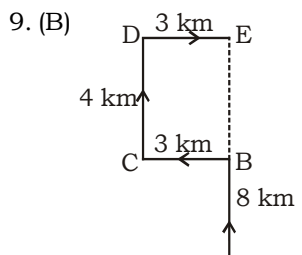


Because it is the corner cube which has its three surfaces coloured and in any cube or cuboid, there are always 8 corner cubes.

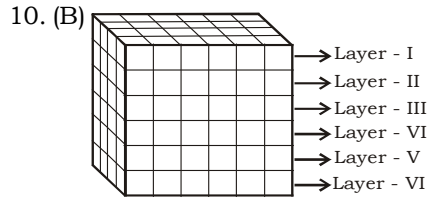


$S_L \rightarrow$ Left side
 $S_R \rightarrow$ Right side
 Total children (T) = $S_L + S_R - 1$
 = $18 + 5 - 1 = 22$

After changing their position
 $T = S_L + S_R - 1$
 $22 = 9 + S_R - 1$
 $S_R = 14$

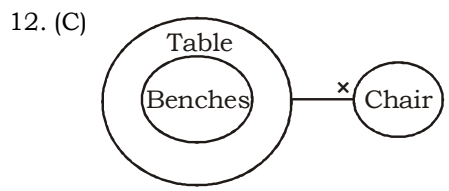


DC = EB = 4 km
 Distance from starting point = AE
 = AB + BE
 = (8 + 4) km
 = 12 km



Total number of cube in layer - I
 = $4 \times 6 = 24$ cubes
 \therefore So the total numbers of cube in layer I-VI
 = $24 \times 6 = 144$ cubes

11. (B)



- Conclusion** I. x
 II. x
 III. x
 IV. ✓

13. (D)

14. (B)

15. (B)

16. (A) Speed in m/sec = $25 \times \frac{5}{18} = \frac{125}{18}$

$S = \frac{D}{T} = \frac{L_T + L_P}{18}$

$L_T + L_P = \frac{125}{18} \times 18$
 = 125 m

17. (C) Let the present age of Ram and Shyam be $4x$ and $5x$ years
 After 5 years

$\frac{4x + 5}{5x + 5} = \frac{5}{6}$

$\Rightarrow 24x + 30 = 25x + 25$
 $\Rightarrow x = 5$

Present age of Ram = $4 \times 5 = 20$ years

18. (D) Let number be N

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$$\text{Then, \% error} = \frac{\frac{5}{3}N - \frac{3}{5}N}{\frac{5}{3}N} \times 100$$

$$= \frac{16 \times 3}{15 \times 5} \times 100$$

$$= 64\%$$

$$19.(C) \left(1 + \frac{1}{x+1}\right) \left(1 + \frac{1}{x+2}\right) \left(1 + \frac{1}{x+3}\right) \left(1 + \frac{1}{x+4}\right)$$

$$= \left(\frac{x+1+1}{x+1}\right) \left(\frac{x+2+1}{x+2}\right) \left(\frac{x+3+1}{x+3}\right) \left(\frac{x+4+1}{x+4}\right)$$

$$= \left(\frac{x+5}{x+1}\right)$$

$$20.(C) +20\% - 20\% + \frac{(+20) \times (-20\%)}{100} = -4\%$$

$$21.(B) (4 \times 4 - 3 \times 5)\% \text{ of sum} = 80$$

$$100\% \text{ of sum} = 8000$$

22.(D) Let the distance from starting point be x
Speed of man downstream = $5 + 1.5 = 6.5$ km/hr
Speed of man upstream
= $5 - 1.5 = 3.5$ km/hr

Then, we have

$$\frac{x}{6.5} + \frac{x}{3.5} = 1$$

$$\Rightarrow 10x = 6.5 \times 3.5$$

$$\Rightarrow x = \frac{22.75}{10} = 2.275$$

23.(B) Suppose B joins for x months.
Then,

$$\frac{450 \times 12}{300 \times x} = \frac{2}{1}$$

$$\Rightarrow x = \frac{450 \times 6}{300} = 9 \text{ months}$$

\therefore B joins after $(12 - 9) = 3$ months.

24.(A) Rate \times consumption = Expenditure
 $10/\text{kg} \times 10 \text{ kg} = 100$

$$\Rightarrow 13.20 \text{ kg} \times x = 110$$

$$x = \frac{110}{13.2} = \frac{100}{12} = 8\frac{1}{3} \text{ kg}$$

25.(A) C.P. = ₹ 100, M.P. = ₹ 120

$$D = \frac{15}{100} \times 120 = 18$$

S.P. = ₹ 102

$$P\% = \frac{P}{C.P.} \times 100$$

$$= \frac{2}{100} \times 100 = 2\%$$

26.(B)

$$M_1 D_1 W_2 = M_2 D_2 W_1$$

$$\Rightarrow M_2 = \frac{M_1 D_1 W_2}{D_2 W_1} = \frac{45 \times 200 \times 7.5}{150 \times 4.5}$$

$$= 100$$

Extra men = $100 - 45 = 55$ men

$$27.(B) \frac{1}{x+1} + \frac{2}{y+2} + \frac{1009}{z+1009} = 1$$

$$\Rightarrow \frac{1}{x+1} - 1 + \frac{2}{y+2} - 1 + \frac{1009}{z+1009} - 1 = 1$$

$$\Rightarrow -\frac{x}{1+x} - \frac{y}{y+2} - \frac{z}{z+1009} = -2$$

$$\Rightarrow \frac{x}{1+x} + \frac{y}{y+2} + \frac{z}{z+1009} = 2$$

28.(A)

Raju 6 days	Rinku 12 days	Ram 25 days
4	2	1
24		

Efficiency = $4 + 2 + 1 = 7$ units/day

$$\therefore \text{Required time} = \frac{24}{7} = 3\frac{3}{7}$$

29.(B)

14% (P)	6% (L)
4% (L)	
2	18
1	9

$$\text{On 14\% profit} = \frac{1}{10} \times 50 = 5 \text{ kg}$$

$$\text{On 6\% loss} = \frac{9}{10} \times 50 = 45 \text{ kg}$$

$$30.(A) \frac{8 \times 16}{16 - 8} = 16 \text{ hours.}$$



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HARYANA SSC MOCK TEST - 23 (ANSWER KEY)

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

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