

HARYANA SSC MOCK TEST-28 (Solution)

1. (B)

$$\begin{array}{ccccccc} 25 & : & 37 & :: & 51 & : & 67 \\ \downarrow & & \downarrow & & \downarrow & & \downarrow \\ (5)^2 + 0 & & (6)^2 + 1 & & (7)^2 + 2 & & (8)^2 + 3 \end{array}$$

2. (A) Flower develops from Bud. Similarly, Plant develops from Seed

3. (D) Bullet comes out from Gun. Similarly, Smoke comes out from chimney.

4. (C) Whale does not lay eggs.

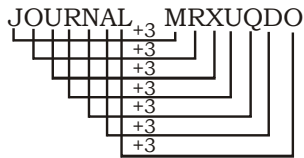
5. (C)

6. (D) (A) $101 = (10)^2 + 1$ (B) $26 = (5)^2 + 1$
(C) $50 = (7)^2 + 1$ (D) $64 = (8)^2$

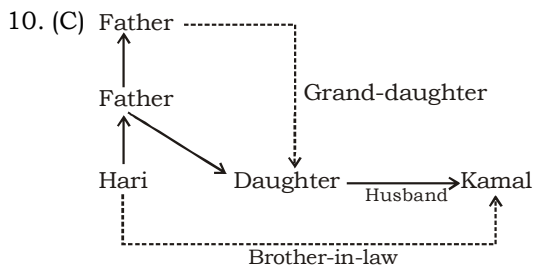
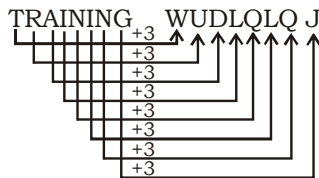
7. (B)

8. (B) aa/bb/cc/aa/bb/cc/aa/bb/cc

9. (*)

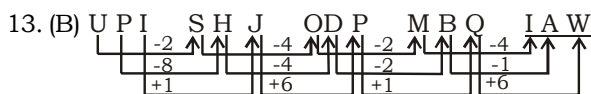


Similarly,



11. (B) $18 \times 14 + 6 - 16 \div 4 = 254$

12. (*) RESPONSE



14. (D) 6 13 28 59 122

$\times 2 + 1$ $\times 2 + 2$ $\times 2 + 3$ $\times 2 + 4$

15. (D)

16. (B) Even numbers between 21 to 51
 $\Rightarrow 50 = 22 + (n-1) \times 2$

$$n-1 = \frac{50-22}{2} = 14$$

$$n = 15$$

$$\therefore \text{Sum} = \frac{22+50}{2} \times 15 = 540$$

17. (C) $3 + \frac{36}{99} + 1 + \frac{33}{99} - 2 - \frac{5}{99}$

$$\Rightarrow 2 + \frac{36+33-5}{99} \Rightarrow 2 + \frac{64}{99} \Rightarrow 2.\overline{64}$$

18. (A) $999\frac{1}{7} + 999\frac{2}{7} + 999\frac{3}{7} + 999\frac{4}{7} + 999\frac{5}{7} + 999\frac{6}{7}$

$$\Rightarrow 999 \times 6 + \left(\frac{1+2+3+4+5+6}{7} \right)$$

$$\Rightarrow 5994 + \frac{21}{7} = 5997$$

19. (A) L.C.M. of 2, 3 and 5 = 30

$$\therefore \text{Required Number} = 30 + 1 = 31$$

20. (B) Number of people who have saving habit

$$= 2500 \times \frac{60}{100} = 1500$$

$$\% \text{ of share holders} = (100 - 30\% - 32\%) = 38\%$$

$$\therefore \text{Required number} = 1500 \times \frac{38}{100} = 570$$

21. (D) ₹ 1 50-P 25-P

Number 5 : 6 : 8

Value 5 : 3 : 2 = 10

$\downarrow \times 24$

240

Number of 25-P coins = $8 \times 24 = 192$

22. (B) Sum of the squares of the first n natural

$$\begin{aligned} \text{number is} &= \frac{n(n+1)(2n+1)}{6} \\ &= \frac{10(10+1)(2 \times 10+1)}{6} \\ &= \frac{10 \times 11 \times 21}{6} = 385 \end{aligned}$$

$$\text{Average} = \frac{385}{10} = 38.5$$

23. (B) Let, total capital is ₹ 60

So,

He invests half (₹ 30) \rightarrow 10%

$$= 30 \times \frac{10}{100} = 3$$

One-third (₹ 20) at → 9%

$$= 20 \times \frac{9}{100} = 1.8$$

Remaining (₹ 10) at → 12%

$$= 10 \times \frac{12}{100} = 1.2$$

$$\therefore \text{Average rate} = \frac{3 + 1.8 + 1.2}{60} \times 100 = 10\%$$

$$24.(C) \text{ Rate (\%)} = \frac{\text{Difference in amounts}}{\text{1st amount}} \times 100 = \frac{540 - 500}{500} \times 100 = 8\%$$

25.(D) Let the cost of low priced chair is = ₹ x
Then, the cost of high priced chair = $900 - x$

$$\therefore \frac{4x}{5} + \frac{5}{4} (900 - x) = 900 + 90$$

$$\therefore 9x = 22500 - 19800 = 2700$$

$$x = 300$$

26.(C) Maximum retail price = ₹ 60

$$\text{Selling price of article} = 60 \times \frac{85}{100} = ₹ 51$$

$$\therefore \text{Actual selling price after giving gift} = 51 - 3 = ₹ 48$$

$$\therefore \text{Cost price} = 48 \times \frac{100}{120} = ₹ 40$$

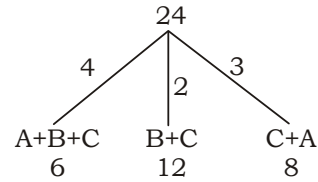
27.(B) Required Time

$$= \frac{\text{Distance between them}}{\text{Relative speeds}}$$

$$= \frac{5}{90 - 75} = \frac{5}{15} = \frac{1}{3} \text{ hr}$$

$$= 20 \text{ minutes}$$

28.(C)

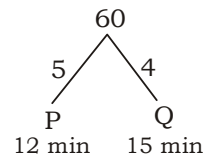


Efficiency of A = $4 - 2 = 2$

Efficiency of B = $4 - 3 = 1$

$$\therefore (A + B) \text{ will do} = \frac{24}{2+1} = 8 \text{ days}$$

29.(D)



$$\therefore \text{Part filled in 3 min} = (5 + 4) \times 3 = 27$$

$$\text{Remaining part} = 60 - 27 = 33$$

$$\therefore \text{Q will take} = \frac{33}{4} = 8 \frac{1}{4} \text{ min}$$

$$30.(A) \text{ Speed of second train} = \frac{360}{4} = 90 \text{ km/hr}$$

Ratio of speeds of 1st and 2nd train

$$= 8 : 9$$

$$\downarrow \times 10 : \downarrow \times 10$$

$$80 \text{ km/hr} : 90 \text{ km/hr}$$

$$\therefore \text{Distance travelled in 3 hr by 1st train} = 80 \times 3 = 240 \text{ km/hr}$$


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HARYANA SSC MOCK TEST - 28 (ANSWER KEY)

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

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