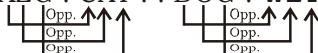


HARYANA SSC MOCK TEST-12 (Solutions)

1. (C) XZG : CAT :: DOG : WLT



2. (B) Wine is prepared from grape. Similarly, Whiskey is prepared from oats.

$$\begin{array}{ccccccc}
 600 & : & 2000 & :: & 5600 & : & 9000 \\
 \downarrow & & \downarrow & & \downarrow & & \downarrow \\
 25^2-25 & & 45^2-25 & & 75^2-25 & & 95^2-25 \\
 \leftarrow +20 \quad \uparrow & & \leftarrow +20 \quad \uparrow & & \leftarrow +20 \quad \uparrow & & \leftarrow +20 \quad \uparrow
 \end{array}$$

4. (B) a a a / b a a b / a a a a / b a a b / a

5. (D) b a a b a / b b a b / a a b a / b b a

6. (A) REPRIEVE

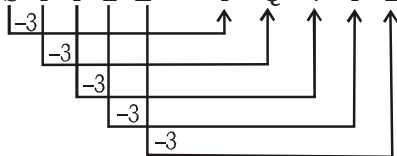
7. (A) 225 R 5 A 64 Q 13 V 6

$$\begin{aligned}
 & 225 \div 5 + 64 - 13 \times 6 \\
 \Rightarrow & 45 + 64 - 78 \\
 \Rightarrow & 109 - 78 = 31
 \end{aligned}$$

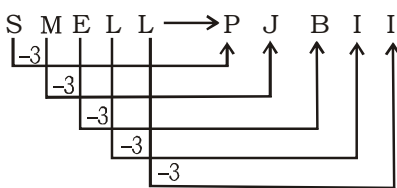
8. (B) According to question the total value of INDIA will be

$$\begin{array}{cccccc}
 I & N & D & I & A \\
 \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\
 18 & + 28 & + 8 & + 18 & + 2 = 74
 \end{array}$$

9. (D) S T Y L E \rightarrow P Q V I B



Similarly,



10. (B) $12 \times 15 \div 3 + 4 - 6$

$$\begin{aligned}
 \Rightarrow & 12 \times 5 + 4 - 6 \\
 \Rightarrow & 60 + 4 - 6 \\
 \Rightarrow & 64 - 6 = 58
 \end{aligned}$$

11. (A)

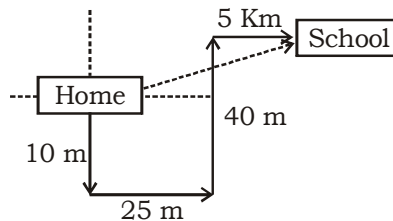
12. (D)

13. (A) S E N T A N T
 $\downarrow \quad \downarrow \quad \downarrow \quad \downarrow$ and $\downarrow \quad \downarrow \quad \downarrow$
 $+\quad \wedge \quad \times \quad -$ $* \quad \times \quad -$

Therefore,

T E N
 $\downarrow \quad \downarrow \quad \downarrow$
 $- \quad \wedge \quad \times$

14. (B)



15. (B) B E H D G J N Q T J M P
 $\leftarrow +3 \uparrow +3 \uparrow$ $\leftarrow +3 \uparrow +3 \uparrow$ $\leftarrow +3 \uparrow +3 \uparrow$ $\leftarrow +3 \uparrow +3 \uparrow$

16. (D) Let the number be $425k + 45$
 $= 25 \times 17k + 34 + 11$
 $= 17[25k + 2] + 11$

When this number is divided by 17, remainder = 11

17. (A) $(256)^{0.16} \times (256)^{0.09}$

$$= (256)^{0.25} = (4^4)^{\frac{1}{4}} = 4$$

18. (D) Let the efficiency of A = 100% then efficiency of B = 125%

A person of 100% efficiency completes a work in 6 days

A person of 1% efficiency completes a work in 6×100 days

A person of 125% efficiency completes

$$\text{a work in } \frac{6 \times 100}{125} = 4 \frac{4}{5} \text{ days}$$

19. (B) Work done by A, B & C in 1 day

$$\begin{aligned}
 &= \frac{1}{20} + \frac{1}{30} + \frac{1}{60} \\
 &= \frac{3+2+1}{60} = \frac{6}{60} = \frac{1}{10}
 \end{aligned}$$

Work completed in 1st three days

$$\begin{aligned}
 &= \frac{1}{20} + \frac{1}{30} + \frac{1}{60} \\
 &= \frac{1}{20} + \frac{1}{20} + \frac{1}{10} = \frac{1+1+2}{20} \\
 &= \frac{4}{20} = \frac{1}{5}
 \end{aligned}$$

Now $\frac{1}{5}$ work is done in 3 days

$$\therefore 1 \text{ work is done in } \frac{3}{1} = 15 \text{ days}$$

20. (B) 2 men and 3 boys complete a work in 10 days

Also,

3 men and 2 boys complete it in 8 days

$$\Rightarrow (2 \text{ men} + 3 \text{ boys}) \times 10 = (3 \text{ men} + 2 \text{ boys}) \times 8$$

$$14 \text{ boys} = 4 \text{ men}$$

$$7 \text{ boys} = 2 \text{ men}$$

$$2 \text{ men} + 3 \text{ boys} = 7 \text{ boys} + 3 \text{ boys}$$

$$= 10 \text{ boys complete a work in 10 days}$$

$$\Rightarrow 1 \text{ boy completes the work in } 10 \times 10 = 100 \text{ days}$$

$$\Rightarrow 2 \text{ men} + 1 \text{ boys} = 7 \text{ boys} + 1 \text{ boys} = 8 \text{ boys completes it in}$$

$$= \frac{100}{8} \text{ days} = \frac{25}{2} \text{ days}$$

$$= 12\frac{1}{2} \text{ days}$$

21. (B) Let CP = ₹ 100

$$SP = ₹ 120$$

Now, 75% of MP = SP

$$MP = \frac{120 \times 100}{75} = ₹ 160$$

\therefore MP must be marked (160-100)% more than cost price.

\Rightarrow MP must be marked 60% more than CP.

22. (B) SP = 90% of MP

$$= \frac{90}{100} \times 450 = ₹ 405$$

23. (A) A : B : C = $\frac{1}{2} : \frac{1}{3} : \frac{1}{4} = 6 : 4 : 3$

$$\text{Share of A} = \frac{6}{13} \times 2600 = ₹ 1200$$

$$\text{Share of B} = \frac{4}{13} \times 2600 = ₹ 800$$

$$\text{Share of C} = \frac{3}{13} \times 2600 = ₹ 600$$

24. (B) Let the four numbers be x_1, x_2, x_3, x_4 .

$$\text{Then, } x_1 + x_2 + x_3 = 45$$

$$x_2 + x_3 + x_4 = 48$$

Sub (2) from (1)

$$x_1 - x_4 = -3$$

$$x_1 - 19 = -3$$

$$x_1 = 16$$

25. (D) Total present age of 5 members

$$= 5 \times 33 = 165 \text{ yrs}$$

Total age of the family 9 years ago

$$= 165 - 9 \times 5$$

$$= 120$$

Average age at the birth of the youngest

$$= \frac{120}{4} = 30 \text{ yrs.}$$

26. (C) $x = 3 + 2\sqrt{2}$

$$\text{Now, } x^2 + \frac{1}{x^2} = \left(x + \frac{1}{x}\right)^2 - 2 \cdot x \cdot \frac{1}{x}$$

$$= \left[3 + 2\sqrt{2} + \frac{1}{3 + 2\sqrt{2}}\right]^2 - 2$$

$$= \left[3 + 2\sqrt{2} + \frac{3 - 2\sqrt{2}}{9 - 8}\right]^2 - 2$$

$$= [3 + 2\sqrt{2} + 3 - 2\sqrt{2}]^2 - 2$$

$$= 36 - 2 = 34$$

27. (D) Let MP = ₹ 100

$$\text{CP for X} = ₹ 90$$

$$\text{CP for Y} = 110\% \text{ of } 90$$

$$= ₹ 99$$

Required Ratio = 100 : 99

28. (B) $SP = CP \times \frac{100 - \% \text{ loss}}{100}$

$$= \frac{1650 \times 92}{100} = ₹ 1518$$

29. (B) $a = 30, d = -\frac{9}{2}$

$$a_{30} = 30 + (30 - 1) \times -\frac{9}{2}$$

$$= \frac{30}{1} - \frac{261}{2} = -100\frac{1}{2}$$

30. (A) The digit in unit's place of

$$49237 \times 3995 \times 738 \times 83 \times 9$$

= unit's place digit in the product

$$7 \times 5 \times 8 \times 3 \times 9 = 67560 = 0$$



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HARYANA SSC MOCK TEST - 12 (ANSWER KEY)

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