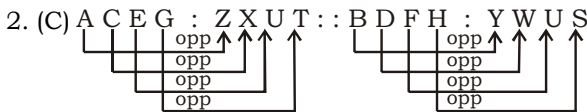


HARYANA SSC MOCK TEST-26 (Solution)

1. (C) $7 : 50 :: 17 : 290$
 $\frac{7}{7^2 + 1} = \frac{50}{17^2 + 1}$



3. (A) 1st word is synonym of 2nd word.

4. (B) Except (B) all numbers are one more than its square. Like $9^2 + 1 = 82$, $8^2 + 1 = 65$, $5^2 + 1 = 26$ but $4^2 - 1 = 15$.

5. (A) Except (A) all cover upper part of body.

6. (C) Except (C) all are divisible by 4

7. (D)

Grandson	Son	Brother	Father	Grand Father
5	4	2	3	1

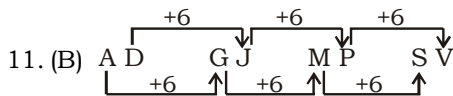
8. (C) mno/nopq/opqrs/pqrst

9. (B) D I S C E R N

10. (A) $7 + 4 - 9 \Rightarrow 2$

$9 + 5 - 11 \Rightarrow 3$

$6 + 7 - 9 \Rightarrow 4$



12. (A)

37.5	7.5	1.5	0.3
÷5		÷5	
÷5		÷5	

13. (D)

14. (B)

RAIN	RAINBOW	READY	REEF
1	2	3	4

15. (C)

16. (D) $\left(x^2 + \frac{1}{x^2}\right) = 7$

$\left(x + \frac{1}{x}\right)^2 - 2 = 7 \Rightarrow \left(x + \frac{1}{x}\right)^2 = 9$

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

$x^3 + \frac{1}{x^3} = \left(x + \frac{1}{x}\right)^3 - 3\left(x + \frac{1}{x}\right) \Rightarrow 27 - 9 = 18$

17. (B) $x + \frac{1}{x} = 5 \Rightarrow x^2 + 1 - 5x = 0$

$\frac{2x}{3x^2 - 5x + 3 - 3x^2 + 15x - 3} = \frac{2x}{10x} = \frac{1}{5}$

18. (B) $a^3 + b^3 + (-c)^3 + 3abc = 0$

$\therefore a^3 + b^3 + c^3 - 3abc = 0$

19. (A) $x^2 + y^2 + 2x + 1 = 0$

$\Rightarrow (x + 1)^2 + (y)^2 = 0$

$x = -1$ & $y = 0$

$-1 + 0 = -1$

20. (D) 3 men or 5 women

12 days

$\Rightarrow 36$ men or 60 women

$\frac{6}{36} + \frac{5}{60} = \frac{1}{6} + \frac{1}{12} = \frac{3}{12} = \frac{1}{4}$

21. (A) $\frac{2}{5}$ work is done by A in 12 days. Whole work will be done by A in 30 days.

$\frac{3}{4}$ work is done by B in 15 days. Whole work will be done by B in 20 days.

A + B can do the work = $\frac{20 \times 30}{50} = \frac{600}{50} = 12$

22. (B) Suppose B takes x days.

Then A takes $\frac{150}{100}x$ days.

$\therefore \frac{1}{x} + \frac{2}{3x} = \frac{1}{18} \Rightarrow \frac{5}{3x} = \frac{1}{18}$

$3x = 90 \Rightarrow x = 30$

Hence B takes 30 days.

23. (C) Short cut Method

$\left[1 - \frac{18}{24}\right] \times 32$

$\Rightarrow \left[\frac{6}{24} \times 32\right] = 8$ min

24. (B) Short cut Method

$\frac{(\text{double} - 1)}{(\text{three times} - 1)} \times \text{years}$

$\Rightarrow \frac{(2 - 1)}{(3 - 1)} \times 20 \Rightarrow \frac{1}{2} \times 20 = 10$

25. (A) Short cut Method :-

Sum = difference $\times \left(\frac{100}{\text{Rate}}\right)^{\text{time}}$

$$\Rightarrow 480 \times \left(\frac{100}{8}\right)^2 \Rightarrow 480 \times \frac{625}{4} = 75000$$

$$\left(\frac{BC}{2}\right)^2 = 625$$

$$\Rightarrow BC = 50 \text{ cm}$$

$$\begin{aligned} 26. (C) \quad 5^{71} + 5^{72} + 5^{73} &= 5^{70}(5 + 5^2 + 5^3) \\ &= 5^{70}(5 + 25 + 125) \\ &= 155 \times 5^{70} \\ &= 155 \end{aligned}$$

$$\begin{aligned} 27. (B) \text{ Let the five numbers are } a, b, c, d, e \\ \therefore a \times b \times c \times d \times e &= (\text{H.C.F.})^{n-1} \times \text{L.C.M.} \\ &= (4)^{5-1} \times 27720 \\ &= 256 \times 27720 \\ &= 7096320 \end{aligned}$$

$$28. (B) \quad \frac{2^{33}}{10} \Rightarrow \frac{2 \times 2^{32}}{2 \times 5} \Rightarrow \frac{(2^4)^8}{5} \Rightarrow \frac{16^8}{5}$$

$$\Rightarrow \frac{(15+1)^8}{5} = \frac{(1)^8}{5} = 1$$

$$\therefore 1 \times 2 = 2$$

$$\begin{aligned} 29. (B) \text{ Let the second number} &= x \\ \text{1st number} \times \text{2nd number} &= \text{L.C.M.} \times \text{H.C.F.} \\ 189 \times x &= 2079 \times 27 \\ x &= 297 \end{aligned}$$

$$30. (C) \text{ S. P. of 5 lemons} = ₹ 14$$

$$40\% \text{ profit} = \frac{2}{5}$$

$$\text{C.P.} \quad : \quad \text{S.P.}$$

$$5 \quad \quad \quad 7$$

$$\downarrow \times 2 \quad \quad \quad \downarrow \times 2$$

$$10 \quad \quad \quad ₹ 14$$

$$\therefore \text{CP of 5 lemons} = ₹ 10$$

$$\text{CP of 1 lemon} = ₹ 2$$

$$\therefore \text{CP of 12 lemons} = ₹ 24$$


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HARYANA SSC MOCK TEST - 26 (ANSWER KEY)

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

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