

HARYANA SSC MOCK TEST-10 (Solutions)

1. (D) NATURAL
2. (C) The colour of the human blood is 'red' and as given, 'red' is called 'yellow'. So, the colour of human blood is 'yellow'.
3. (C) All except Rice are rabi crops.
4. (D) $\frac{\text{Plead}}{4}$ $\frac{\text{Pleasant}}{3}$ $\frac{\text{Please}}{1}$ $\frac{\text{Pleasure}}{2}$
5. (A) $\begin{matrix} \uparrow +1 & \uparrow +1 & \uparrow +1 & \uparrow +1 & \uparrow +1 \\ \text{QAR} & \text{RAS} & \text{SAT} & \text{TAU} & \text{UAV} \\ \downarrow +0 & \downarrow +0 & \downarrow +0 & \downarrow +0 & \downarrow +0 \end{matrix}$
6. (D) DEVOTION is characteristic of a MONK. Similarly, WANDERLUST is characteristic of a ROVER.
7. (A)
8. (D) A window is made up of panes, and a book is made up of pages.
9. (B) $9^3 + 9 = 738$
Similarly,
 $11^3 + 11 = 1342$

10. (D) $\begin{matrix} \xrightarrow{-1} & \xrightarrow{-1} & \xrightarrow{-1} \\ \text{M} & \text{L} & \text{N} & \text{K} & \text{O} & \text{J} & \text{P} & \text{I} \\ \xrightarrow{+1} & \xrightarrow{+1} & \xrightarrow{+1} & & & & & \end{matrix}$

11. (D) Son of A is the brother of C and D. Therefore, B is the uncle of C.
12. (C) Rank from bottom $30 - 16 + 1 = 15$ th.
13. (C) $\begin{matrix} C(-) \\ | \\ A(+) \\ | \\ B \end{matrix}$

A may be son or daughter of B.

14. (B) Angle traced by hour hand in $\frac{13}{3}$ hrs
 $= \left(\frac{360}{12} \times \frac{13}{3}\right)^\circ = 130^\circ$
Angle traced by min. hand in 20 min.
 $= \left(\frac{360}{60} \times 20\right)^\circ = 120^\circ$
 \therefore Required angle $= (130 - 120)^\circ = 10^\circ$.

15. (D) $A = 2 \Rightarrow$ Position Number $\times 2$
Therefore,
 $\begin{matrix} B & A & B & Y \\ \downarrow & \downarrow & \downarrow & \downarrow \\ 2 & + & 1 & + & 2 & + & 25 = 30 \end{matrix}$
Required answer $= 30 \times 2 = 60$
16. (D) $1.086 - 0.3983 - 0.669 = ?$
 $\Rightarrow 1.086 - 1.0673 = 0.0187$

17. (B) Suppose the number $= 10x + y$
 $x + y = 11$ (i)
 $(10x + y) + 27 = 10y + x$
 $\Rightarrow 10x - x + y - 10y = -27$
 $\Rightarrow 9x - 9y = -27$
 $\Rightarrow x - y = -3$ (ii)
 $\Rightarrow x = 4$ and $y = 7$
 $= 10x + y = 40 + 7 = 47$
18. (D) The smallest 5-digit number = 10000
On dividing 10000 by 476, remainder = 4
 \therefore Required number
 $= 10000 + (476 - 4) = 10472$
19. (B) Suppose x men are required
 $18 \times 5 \times 8 = x \times 8 \times 6$
 $\Rightarrow x = \frac{18 \times 5 \times 8}{8 \times 6} = 15$ men
20. (D) $\begin{matrix} 4, & 10, & 22, & 46, & 94, & 190 \\ \uparrow & \uparrow & \uparrow & \uparrow & \uparrow \\ +6 & +12 & +24 & +48 & +96 \\ \times 2 & \times 2 & \times 2 & \times 2 & \times 2 \end{matrix}$
21. (A) $8x = 48$
 $\Rightarrow x = 6$
 $\Rightarrow 21x = 21 \times 6 = 126$
22. (D) Let listed Price = ₹ 100
Total discounted price after successive discounts of 10%, 20% & 25%
 $= 100 \times \frac{100 - 10}{100} \times \frac{100 - 20}{100} \times \frac{100 - 25}{100}$
 $= 100 \times \frac{90}{100} \times \frac{80}{100} \times \frac{75}{100}$
 $= \frac{5400}{100} = ₹ 54$
Single discount equivalent $= 100 - 54 = 46\%$
23. (B) Required percentage increase
 $= \left(10 + 10 + \frac{10 \times 10}{100}\right)\% = 21\%$
 \therefore Increase = ₹ 21
24. (A) If the number of successful candidates be x , then
 $x \times 39 + (120 - x) 15 = 120 \times 35$
 $\Rightarrow 39x + 1800 - 15x = 4200$
 $\Rightarrow 24x = 4200 - 1800 = 2400$
 $\Rightarrow x = 100$
25. (C) Let the CP of each table = ₹ 1
 \therefore CP of 16 tables = ₹ 16
SP of 16 tables = ₹ 12
 \therefore Loss% $= \frac{4}{16} \times 100 = 25\%$
26. (C) Ratio of the equivalent capitals of A and B for 1 month
 $= 3x \times 2t : x \times t = 6 : 1$
B's share = Rs. 4000

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$\Rightarrow \frac{1}{7} \times \text{Total profit} = ₹ 4000$
 $\Rightarrow \text{Total profit} = (7 \times 4000) = ₹ 28000$
 27. (B) Relative speed of train
 $= (50 - 30) \text{ kmph} = 20 \text{ kmph}$
 $= 20 \times \frac{5}{18} = \frac{50}{9} \text{ m/sec.}$
 \therefore Required length of train
 $= \frac{50}{9} \times 18 = 100 \text{ metre}$

28. (B) Expression = $\frac{1}{2^{\frac{2}{3}} + 2^{\frac{1}{3}} + 1}$
 $= \frac{2^{\frac{1}{3}} - 1}{\left(2^{\frac{2}{3}} - 1\right)\left(2^{\frac{2}{3}} + 2^{\frac{1}{3}} + 1\right)}$

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

$$[\because (a - b)(a^2 + ab + b^2) = a^3 - b^3]$$

29. (A) By division method,

$$\begin{array}{r} 68 \\ \underline{6) 4750} \\ 36 \\ \underline{128} 1150 \\ \underline{1024} \\ 126 \end{array}$$

So 126 is to be subtracted from 4750 to get a perfect square number.

30. (D) Ratio of time taken by A, B and C = A : B : C = 1 : 2 : 6

$$\therefore \text{Time taken by A} = \frac{42}{6} = 7 \text{ minutes}$$

HARYANA SSC MOCK TEST - 10 (ANSWER KEY)

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