

HARYANA SSC MOCK TEST-6 (SOLUTIONS)

1. (A) C O M P U T E R

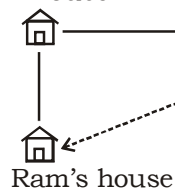
O C P M T U R E

Similarly,

H O C K E Y
O H K C Y E

2. (B) $\frac{RAIN}{1}$ $\frac{RAINBOW}{2}$ $\frac{READY}{3}$ $\frac{REEF}{4}$

3. (C) Krishna's house



Govinda's house

Ram's house in South-West Direction

4 (C) $3^2 + 4^2 = 25$ and

$$6^2 + 1^2 = 37$$

Similarly,

$$1^2 + 5^2 = 26$$

5. (C) $\begin{matrix} \text{a} & \text{b} & \text{c} \\ \text{c} & \text{b} & \text{a} \end{matrix} / \begin{matrix} \text{a} & \text{b} & \text{c} \\ \text{c} & \text{b} & \text{a} \end{matrix} / \begin{matrix} \text{a} & \text{b} & \text{c} \\ \text{c} & \text{b} & \text{a} \end{matrix}$

6 (A) By squaring the number, we get the number of opposite side

$$5^2 = 25$$

$$8^2 = 64$$

$$2^2 = 4$$

Similarly,

$$1^2 = 1$$

7. (C) $5 \xrightarrow{(5)^2 + 5} 30 \quad :: \quad 8 \xrightarrow{(8)^2 + 5} 69$

8. (D) Furniture is made by carpenter similarly Soup is made by cook.

9. (D) $xzy : wvu :: cab : def$



10. (C) $21 - 98$

$\downarrow \quad \downarrow$
 $7 \times 3 \quad 14 \times 7$

$45 - 210$

$\downarrow \quad \downarrow$
 $15 \times 3 \quad 30 \times 7$

$27 - 126$

$\downarrow \quad \downarrow$
 $9 \times 3 \quad 18 \times 7$

$7 - 29$ are not following the same rule.

11. (C) $\begin{matrix} E & B & D \\ \uparrow & & \\ +1 & & \end{matrix}$

$\begin{matrix} I & F & H \\ \uparrow & & \\ +1 & & \end{matrix}$

$\begin{matrix} Q & N & O \\ \uparrow & & \\ +2 & & \end{matrix}$ not like others

$\begin{matrix} Y & V & X \\ \uparrow & & \\ +1 & & \end{matrix}$

12. (C) $\frac{\text{Foundation}}{3}$ $\frac{\text{Walls}}{4}$ $\frac{\text{Ceiling}}{5}$ $\frac{\text{Plastering}}{1}$ $\frac{\text{Painting}}{2}$

13. (B) $2, 10, 30, 68, 120, 222$

14. (D)

15. (A) Father of maternal uncle = Nana
Nana's only daughter = Mother
Mother's son = Savitha's brother

16. (C) Short cut Method :

$$\text{Loss \%} = \frac{II}{I+II} \times 100$$

$$= \frac{4}{40} \times 100 = 10\%$$

17. (B) Short cut Method :

$$\frac{342}{18} \quad \text{and} \quad \frac{47}{18}$$

remainder = 0 remainder = 11

18. (C) $\because (a-b) = 1 \Rightarrow (a-b)^3 = (1)^3$

$$\Rightarrow a^3 - b^3 - 3ab(a-b) = 1$$

$$\Rightarrow a^3 - b^3 - 3ab \times 1 = 1$$

$$\Rightarrow a^3 - b^3 - 3ab = 1$$

19. (A) S.P. = 720, loss = 25%

$$\text{So, C.P.} = \frac{720 \times 100}{(100 - 25)} = ₹ 960$$

For 25% Profit, the S.P. will be 125% of ₹ 960

$$= 960 \times \frac{125}{100} = ₹ 1200$$

20. (D) $3^{25} (1 + 3^1 + 3^2 + 3^3)$

$$= 3^{25} \times (40)$$

$$= 3 \times 40 = 120 \text{ which is dividible by } 30$$

21. (B) Short cut Method

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

$$= \frac{(2-1)}{(3-1)} \times 20 = \frac{1}{2} \times 20 = 10 \text{ years.}$$

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22. (B) Let the quantity of spirit and water be
3x litres and 2x litres.

Then $3x - 2x = 3$

$\Rightarrow x = 3$

Spirit = (3×3) litres = 9 litres

23. (D) $x = 7 - 4\sqrt{3}$

$\therefore \frac{1}{x} = \frac{1}{7 - 4\sqrt{3}}$

$\therefore \frac{1}{x} = \frac{7 + 4\sqrt{3}}{(7 + 4\sqrt{3})(7 - 4\sqrt{3})}$

$= \frac{7 + 4\sqrt{3}}{(7)^2 - (4\sqrt{3})^2}$

$= \frac{7 + 4\sqrt{3}}{49 - 48} = 7 + 4\sqrt{3}$

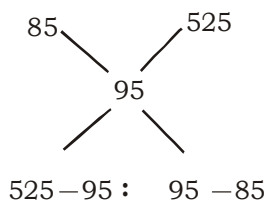
$\therefore x + \frac{1}{x} = 7 - 4\sqrt{3} + 7 + 4\sqrt{3} = 14$

24. (B) $\frac{a}{3} = \frac{b}{4} = \frac{c}{7} = k$

$a = 3k, b = 4k, c = 7k$

$\Rightarrow \frac{3k + 4k + 7k}{7k} = \frac{14k}{7k} = 2$

25. (A) REMAINING WORKERS 15 OFFICIALS



Ratio of number of remaining workers to
number of officials = 430 : 10

$= 43 : 1$

Number of officials = 15

Number of remaining workers = 43×15
 $= 645$

Total number of workers = 660

26. (C) A - Students failed in Hindi = 48%

B - Students failed in History = 32%

$A \cap B = 20\%$

$A \cup B = 48 + 32 - 20 = 60\%$

40% passed in the subjects

[60% failed in either subjects]

40% of total students = 880

Total number of students = $\frac{880}{40} \times 100$
 $= 2200$

27. (B)

2	12, 18, 21, 28
2	6, 9, 21, 14
3	3, 9, 21, 7
7	1, 3, 7, 7
	1, 3, 1, 1

\therefore L.C.M. = $2 \times 2 \times 3 \times 7 \times 3 = 252$
The smallest 5-digit number = 10000

252 10000 39

756

2440

2268

172

\therefore Smallest number divisible by 252
 $= 10000 + (252 - 172) = 10080$

\therefore Required number = 10081

28. (C) Here 1 man can use only 1 broomstick at
a time as number of broomstick = number
of man

So, number of broomsticks does not
matter.

$m_1 d_1 w_2 = m_2 d_2 w_1$

$10 \times 10 \times 8 = 8 \times d_2 \times 10$

$\Rightarrow d_2 = 10$ days

29. (B) Short Cut Method:

$\frac{R}{100 \pm R} \times 100$

$= \frac{15}{115} \times 100 = 13 \frac{1}{23} \%$

30. (A) Let the number of one-rupee, 50-p and
25-p coins be 5x, 9x and 25x respectively.
Then,

$5x + \frac{9x}{2} + \frac{25x}{4} = 1008$

$\Rightarrow 20x + 18x + 25x = 4032$

$63x = 4032$

$\Rightarrow x = \frac{4032}{63} \Rightarrow x = 64$

Number of 50-p coins = $9 \times 64 = 576$



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HARYANA SSC MOCK TEST - 6 (ANSWER KEY)

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