HARYANA SSC MOCK TEST-5 (Solutions)

1. (B) P + A + N = PAN
   ↓ ↓ ↓
   16 + 1 + 14 = 31
   P + A + R = PAR
   ↓ ↓ ↓
   16 +1+18 = 35
   ∴ P + A + T = PAT
   ↓ ↓ ↓
   16+1+ 20 = 37

2. (B) 7^2 = 49
   9^2 = 81
   8^2 = 64
   10^2 = $\boxed{100}$

3. (A)
   Suresh (father)
   ↑
   Deepak → Naresh
   (brother)   ↓
            Anu → Ramesh
         (daughter) (brother)
   The uncle of Ramesh is Deepak.

4. (A) Opposite of Pleasure is sorrow, so opposite of right is wrong.

5. (D) N A T I O N   E A R N
   ↓ ↓ ↓ ↓ ↓ ↓   ↓ ↓ ↓ ↓
   4 6 7 2 3 4   1 6 5 4
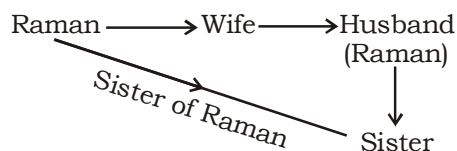   A T T E N T I O N
   ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓
   6 7 7 1 4 7 2 3 4

6. (D) The colour of milk is white. Here, white means yellow.

7. (C) 6 + 7 × 3 − 8 ÷ 20 = ?
   After changing
   6 × 7 ÷ 3 + 8 − 20 = 14 + 8 − 20 = 2

8. (B)

   Raman ⟶ Wife ⟶ Husband
                      (Raman)
   Sister of Raman ↘
                     Sister

   ∴ The woman is the sister of Raman.

9. (C)

10. (D) In row first,
    $6^3 + 6^2 + 6 = 258$
    Similarly, in row two, three and four
    In row four,
    $9^3 + 9^2 + 9 = 819$

11. (C) A $\xrightarrow{+2}$ C $\xrightarrow{+2}$ E
    F $\xrightarrow{+2}$ H $\xrightarrow{+2}$ J
    K $\xrightarrow{+1}$ L $\xrightarrow{+1}$ M
    S $\xrightarrow{+2}$ U $\xrightarrow{+2}$ W

12. (B) A = 2 ⟹ Position Number × 2
    Therefore,
    C   A   B
    ↓   ↓   ↓
    2   +   1   +   2 = 30
    Required answer = 6 × 2 = 12

13. (D) First figure ⟹ 21 + 37 = 58
    Second figure ⟹ 14 + 25 = 39
    ⟹ Third figure = 16 + 81 = 97

14. (B)

15. (D) After rotating the dice (i), the triangle moves on the top the X moves to the left side. So, O lies opposite to X.

16. (B)

    ```
     4)2403(600.75
       24
       030
        28
        20
        20
         ×
    ```

17. (D) The length of the train = speed × time taken of cross the signal
    = $90 \times \dfrac{5}{18} \times 10$ = 5 × 5 × 10 = 250 m

18. (A) Preeti's saving = $2,00,000 \times \dfrac{70}{100} \times \dfrac{60}{100} \times$

$\dfrac{75}{100} = 20 \times 7 \times 6 \times 75 = ₹\ 63,000$

19. (B) Number of women = (100 – 55)% of 64100

$= 64100 \times \dfrac{45}{100} = 28845$

20. (A) By question,

A = 140% of B

$\Rightarrow A = \dfrac{140B}{100}$

$\therefore \dfrac{A}{B} = \dfrac{7}{5}$ ...(i)

B = 80% of C

$\Rightarrow B = \dfrac{80C}{100}$

$\therefore \dfrac{B}{C} = \dfrac{4}{5}$

Multiplying equation (1) and (2),

$\therefore \dfrac{A}{B} \times \dfrac{B}{C} = \dfrac{7}{5} \times \dfrac{4}{5}$

$\Rightarrow \dfrac{A}{C} = \dfrac{28}{25}$

$\therefore A : C = 28 : 25$

21. (A) Expression

$= \sqrt{8 + \sqrt{57 + \sqrt{38 + \sqrt{108 + \sqrt{169}}}}}$

$= \sqrt{8 + \sqrt{57 + \sqrt{38 + \sqrt{108 + 13}}}}$

$= \sqrt{8 + \sqrt{57 + \sqrt{38 + \sqrt{121}}}}$

$= \sqrt{8 + \sqrt{57 + \sqrt{38 + 11}}}$

$= \sqrt{8 + \sqrt{57 + \sqrt{49}}}$

$= \sqrt{8 + \sqrt{57 + 7}} = \sqrt{8 + \sqrt{64}}$

$= \sqrt{8 + 8} = \sqrt{16} = 4$

22. (A) Taking LCM of 8, 5, 3 and 2 i.e. 120.
than, multiplying every fraction by 120.

$\dfrac{3}{8} \times 120, \quad \dfrac{3}{5} \times 120, \quad \dfrac{2}{3} \times 120, \quad \dfrac{1}{2} \times 120$

$\downarrow \qquad\quad \downarrow \qquad\quad \downarrow \qquad\quad \downarrow$

$45 \qquad\quad 72 \qquad\quad 80 \qquad\quad 60$

80 > 72 > 60 > 45

80 i.e. $\dfrac{2}{3}$ is largest

23. (A) C.I. for 2 years at 8% = 16.64%
Amount = ₹ 5832 = 116.64%

Principal = $\dfrac{5832}{116.64} \times 100 = ₹\ 5000$

24. (D) First number × Second number
= HCF × LCM
$\Rightarrow$ 75 × Second number
= 15 × 225

$= \dfrac{15 \times 225}{75} = 45$

25. (A) Area of path = $x(l + b - x)$
= 5(60 + 40 – 5)
= 5 × 95 = 475 m²

$\therefore$ Total cost = $475 \times \dfrac{60}{100} = ₹\ 285$

26. (A) CP = $\dfrac{2400}{(100 + 25)} \times 100 = ₹\ 1920$

SP = ₹ 2040
Profit = 2040 – 1920 = ₹ 120

% profit = $\dfrac{120}{1920} \times 100 = 6.25\%$

27. (D) Sita's current age is $\dfrac{6}{5}$ times of her age at the time of her marriage which means her current age is 6 units and her age at the time of marrage was 5 units. But she got married 6 years ago which means 1 unit is equal to 6 years so her current age is 36 years and her son's age is $\dfrac{1}{12}$ of her current age i.e. 3 years.

28. (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

∴ L.C.M.= 2 × 2 × 3 × 7 × 3 = 252

The smallest 5-digit number = 10000

252 10000 39
      756
      2440
      2268
       172

∴ Smallest number divisible by 252
= 10000 + (252 - 172) = 10080

∴ Required number = 10081

29. (D) 20% of 200 = $\dfrac{20 \times 200}{100}$ = 40

7% of 500 = $\dfrac{7 \times 500}{100}$ = 35

1300% of 3 = $\dfrac{1300 \times 3}{100}$ = 39

600% of 7 = $\dfrac{600 \times 7}{100}$ = 42

30. (A) Let the income of C = x.

∴ income of B = 80% of x

= $\dfrac{80x}{100}$ = $\dfrac{4x}{5}$

∴ income of A = 110% of $\dfrac{4x}{5}$

$\dfrac{110}{100} \times \dfrac{4x}{5}$ = $\dfrac{22x}{25}$

∴ Ratio is,

$\dfrac{22x}{25}$: $\dfrac{4x}{5}$: x = A : B : C

⇒ $\dfrac{22x}{25}$: $\dfrac{20x}{25}$: $\dfrac{25x}{25}$ = A : B : C

∴ A : B : C = 22 : 20 : 25

HARYANA SSC MOCK TEST - 5 (ANSWER KEY)

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