

**HARYANA SSC MOCK TEST-33 (Solution)**

1. (C) Cataract : Eye :: Pneumonia : **Lungs**

Affected part ↑      Affected part ↑

2. (D) YAD : NUS :: **THGIN** : NOOM

↓                          ↓  
SUNDAY    :: MOONNIGHT

3. (B) 27 : 3 :: 873 : **97**

↑ +9                  ↑ +9

4. (D)

5. (D) (A) 1876

$$\Rightarrow 1 + 8 + 7 + 6 = 22 \text{ (Even Number)}$$

(B) 1984

$$\Rightarrow 1 + 9 + 8 + 4 = 22 \text{ (Even Number)}$$

(C) 2024

$$\Rightarrow 2 + 0 + 2 + 4 = 8 \text{ (Even Number)}$$

(D) 2014

$$\Rightarrow 2 + 0 + 1 + 4 = 7 \text{ (odd Number)}$$

6. (D) (A) **3 - 9**                      (B) **5 - 25**

Square and  
odd number ↑

Square and  
odd number ↑

(C) **7 - 49**                      (D) **8 - 64**

Square and  
odd number ↑

Square and  
even number ↑

7. (B)  $\frac{\text{Foundation}}{2}$      $\frac{\text{Floor}}{3}$      $\frac{\text{Window}}{1}$      $\frac{\text{Ventilator}}{4}$

$\frac{\text{Roof}}{5}$

8. (A)  $\frac{\text{Fan}}{2}$      $\frac{\text{Feast}}{4}$      $\frac{\text{Fish}}{1}$      $\frac{\text{Flesh}}{3}$      $\frac{\text{Fraud}}{5}$

9. (D) Cost price of 1 kg wheat =  $\frac{₹384}{16}$

$$= ₹ 24/\text{kg}$$

$$\therefore \text{Cost price of 90 kg wheat} = 24 \times 90$$

$$= ₹ 2160$$

10. (A) The value after exchange

3 6 5 4 1 9  
↓ ↓ ↓ ↓ ↓ ↓  
9 2 8 1 4 3

11. (B) **STENT**

12. (B) M I G H T → K G E F R

↓ -2        ↓ -2        ↓ -2        ↓ -2  
↓ -2        ↓ -2        ↓ -2        ↓ -2  
↓ -2        ↓ -2        ↓ -2        ↓ -2  
↓ -2        ↓ -2        ↓ -2        ↓ -2

D I A R Y → B G Y P W  
↓ -2        ↓ -2        ↓ -2        ↓ -2  
↓ -2        ↓ -2        ↓ -2        ↓ -2  
↓ -2        ↓ -2        ↓ -2        ↓ -2  
↓ -2        ↓ -2        ↓ -2        ↓ -2

13. (C)  $6 + 5 + 7 + 3 = 21$

$$7 + 3 + 8 + 3 = 21$$

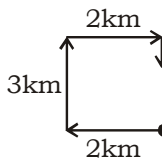
$$4 + 5 + 6 + 6 = 21$$

14. (A)  $5 \times 3 \div 3 - 5 = 0$

$$5 \times 1 - 5 = 0$$

$$5 - 5 = 0$$

15. (D)



16. (B)  $9\sqrt{x} = \sqrt{12} + \sqrt{147}$

$$\Rightarrow \sqrt{x} = \frac{2\sqrt{3} + 7\sqrt{3}}{9} = \sqrt{3}$$

$$\Rightarrow x = 3$$

17. (C) HCF of 24, 36 and 60 = 12

$$\text{Number of rows} = \frac{24}{12} + \frac{36}{12} + \frac{60}{12}$$

$$= 2 + 3 + 5 = 10$$

18. (C) Weight of bucket + weight of water = 17 kg

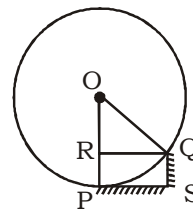
$$\text{Weight of bucket} + \frac{1}{2} \times \text{weight of water} = 13.5 \text{ kg}$$

$$\Rightarrow \frac{1}{2} \times \text{weight of water} = 3.5 \text{ kg}$$

$$\text{weight of water} = 7 \text{ kg}$$

$$\Rightarrow \text{weight of empty bucket} = 17 - 7 = 10 \text{ kg}$$

19. (A) Suppose 'r' be the radius of the circle



$$PS = 6''$$

$$QS = 2''$$

In  $\triangle ORQ$

$$OQ^2 = OR^2 + RQ^2$$

$$\Rightarrow r^2 - (r - 2)^2 + 6^2$$

$$\Rightarrow r^2 - (r - 2)^2 = 36$$

$$\Rightarrow 4r - 4 = 36$$

$$\therefore r = 10''$$

20. (D) Let the maximum marks in the examination =  $x$   
then,  
30% of  $x + 12 = 40\%$  of  $x - 28$

$$= \left( \frac{40}{100} - \frac{30}{100} \right) x = 40$$

$$x = 400$$

(X)  $\times \sqrt{\text{Ratio of their time after they met.}}$

$$= 45 \times \sqrt{\frac{24}{\frac{5}{10}}} = 45 \times \sqrt{\frac{24 \times 3}{50}}$$

$$= 45 \times \frac{6}{5} = 54 \text{ km/hr}$$

21. (A) Suppose principal = ₹  $x$   
Amount =  $2x$

$$\Rightarrow \text{SI } (2x - x) = ₹ x$$

$$R = \frac{x \times 100}{x \times 16} = \frac{25}{4} \%$$

$$\text{Now, SI} = (3x - x) = ₹ 2x$$

$$T = \frac{2x \times 100}{x \times \frac{25}{4}} = \frac{2 \times 100 \times 4}{25} = 32 \text{ years}$$

22. (A)  $\frac{V_1}{V_2} = \frac{S_1^3}{S_2^3} = \frac{8}{125}$

$$\Rightarrow \frac{S_1}{S_2} = \frac{2}{5}$$

$$\text{Now, } \frac{A_1}{A_2} = \frac{6 \times S_1^2}{6 \times S_2^2} = \frac{6}{6} \times \left( \frac{2}{5} \right)^2 = \frac{4}{25}$$

$$\Rightarrow A_1 : A_2 = 4 : 25$$

23. (A) Price of the TV after depreciation

$$= 21,000 \left( 1 - \frac{5}{100} \right)$$

$$= ₹ 19,950$$

24. (B) % discount =  $\frac{270 - 237.50}{270} \times 100$

$$= \frac{32.5}{270} \times 100 = 12\% \text{ (approx)}$$

25. (C) Let the three numbers be  $2x$ ,  $3x$  and  $5x$

$$\text{Now, } (2x)^2 + (3x)^2 + (5x)^2 = 608$$

$$\Rightarrow 38x^2 = 608$$

$$\therefore x = \sqrt{\frac{608}{38}} = 4$$

Three numbers are 8, 12, 20

26. (C) Let the total money by ₹  $x$

$$\text{Share of B} = \frac{6}{21}x$$

$$\text{Share of C} = \frac{3}{21}x$$

$$\text{Now, } \frac{6x}{21} - \frac{3x}{21} = 270$$

$$x = \frac{270 \times 21}{3} = 1890$$

$$\text{Share of D} = \frac{5}{21} \times 1890 = ₹ 450$$

27. (C) Let A, B and C be three numbers then,

$$A + B = 4, B + C = 6, A + C = 8$$

$$2(A + B + C) = 18$$

$$A + B + C = 9$$

$$\text{Their average} = \frac{9}{3} = 3$$

28. (B) Let the CP of the item = ₹  $x$   
then,

$$118\% \text{ of } 120\% \text{ of } 125\% \text{ of } x = 15045$$

$$\Rightarrow x = \frac{15045 \times 100 \times 100 \times 100}{118 \times 120 \times 125}$$

$$= ₹ 8500$$

29. (A) Let the CP of each camera = ₹ 100

$$\text{SP}_1 @ 18\% \text{ profit} = ₹ 118$$

$$\text{SP}_2 = 90\% \text{ of } 118 = ₹ 106.2$$

$$\text{Net SP} = ₹ 224.2$$

$$\text{Net CP} = ₹ 200$$

$$\% \text{ gain} = \frac{24.2 \times 100}{200} = 12.1\%$$

30. (B) Given that

$$\sin(60^\circ - x) = \cos(y + 60^\circ)$$

$$\Rightarrow \cos(90^\circ - 60^\circ + x) = \cos(y + 60^\circ)$$

$$\Rightarrow 30^\circ + x = y + 60^\circ$$

$$\Rightarrow x - y = 60^\circ - 30^\circ$$

$$\Rightarrow x - y = 30^\circ$$

$$\therefore \sin(x - y) = \sin 30^\circ = \frac{1}{2}$$

  
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**HARYANA SSC MOCK TEST - 33 (ANSWER KEY)**

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

**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**