

HARYANA SSC MOCK TEST-31 (Solution)

1. (B) $\frac{\text{Nostril}}{2} \quad \frac{\text{Wind Pipe}}{3} \quad \frac{\text{Lung}}{1} \quad \frac{\text{Blood}}{4}$

2. (C) $A \xrightarrow{+2} C \xrightarrow{+2} E$

$F \xrightarrow{+2} H \xrightarrow{+2} J$

$K \xrightarrow{+1} L \xrightarrow{+1} M$

$S \xrightarrow{+2} U \xrightarrow{+2} W$

3. (B) $A = 2 \Rightarrow \text{Position Number} \times 2$

Therefore,

C	A	B
↓	↓	↓
2	1	2
+	+	+
$2 = 30$		

Required answer = $6 \times 2 = 12$

4. (D) First figure $\Rightarrow 21 + 37 = 58$

Second figure $\Rightarrow 14 + 25 = 39$

\Rightarrow Third figure = $16 + 81 = 97$

5. (A) $R \xrightarrow{-1} Q$ Similarly, $Z \xrightarrow{-1} Y$

$O \xrightarrow{-1} N$ $X \xrightarrow{-1} W$

$B \xrightarrow{-1} A$ $C \xrightarrow{-1} B$

$U \xrightarrow{-1} T$ $M \xrightarrow{-1} L$

$S \xrightarrow{-1} R$ $P \xrightarrow{-1} O$

$T \xrightarrow{-1} S$

So, answer is YWBLO.

6. (A) Ink is not used directly by taking in hand, while rest are used.

7. (B) $15^2 + 1 = 226$

Similarly,
 $20^2 + 1 = 401$

8. (C)

9. (C) Fan can not perform it's purpose without wings. Similarly, wheel can not perform it self without spokes.

10. (D) Video can't be played without cassette, in the same way computer can't be run without floppy.

11. (A) LOATHSOMENESS

After rearrangement
AEEHLMNOOSSST

12. (C) $6 + 7 \times 3 - 8 \div 20 = ?$

After changing
 $6 \times 7 \div 3 + 8 - 20 = 14 + 8 - 20 = 2$

13. (D) In row first,

$6^3 + 6^2 + 6 = 258$

Similarly, in row two, three and four

In row four,

$9^3 + 9^2 + 9 = 819$

14. (B) $\text{Raman} \rightarrow \text{wife} \rightarrow \text{husband (Raman)}$

\downarrow
Sister of Raman \rightarrow Sister

\therefore The woman is the sister of Raman.

15. (C)

16. (A) Let the speed of boat in steal water is x km/h and the speed of current of river = y km/h.

by question,

$$x + y = 22 \quad \dots(1)$$

$$x - y = 16 \quad \dots(2)$$

Adding both equations (1) and (2)

$$2x = 38 \Rightarrow x = 19 \text{ km/h.}$$

17. (A) Preeti's savings = $2,00,000 \times \frac{70}{100} \times \frac{60}{100}$

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

18. (B) Let the rate = $R \%$

\therefore By question,

$$\frac{1200 \times 3 \times R}{100} - \frac{800 \times 4 \times R}{100} = 20$$

$$\Rightarrow 36R - 32R = 20 \Rightarrow 4R = 20 \therefore R = 5\%$$

19. (D) Only sequence of discounts is changed.

\therefore equivalent discounts will be same.

$\therefore 20\%, 5\%, 10\% = 5\%, 10\%, 20\% = 10\%$

$20\%, 5\%$

\therefore all are equal.

20. (B) $P = ₹ 8000, r = \frac{8\%}{2}$ half yearly = 4% half-yearly

and $n = 2 \times 2$ half-years = 4 half-years

$$\therefore \text{C.I.} = P \left[\left(1 + \frac{r}{100} \right)^n - 1 \right] = 8000 \left[\left(\frac{104}{100} \right)^4 - 1 \right]$$

$$= 8000 \left[\left(\frac{26}{25} \right)^4 - 1 \right] = 8000 \left[\left(\frac{456976}{390625} - 1 \right) \right]$$

$$= 8000 \times \frac{66351}{390625} = ₹ 1358.86$$

21. (C) Sum of 15 numbers = $25 \times 15 = 375$

The new sum = $375 - 15 \times 4$

$$= 375 - 60 = 315$$

$$\therefore \text{The new mean} = \frac{315}{15} = 21$$

22. (A) By question,

$A = 140\%$ of B

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

$$\therefore \frac{A}{B} = \frac{7}{5} \quad \dots(i)$$

$B = 80\%$ of C

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

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

Multiplying equation (1) and (2),

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

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

$$\therefore A : C = 28 : 25$$

23. (B) $a = 8.73, b = 4.27$

Now,

$$\frac{a^3 + b^3}{a^2 - ab + b^2} = \frac{(a+b)(a^2 - ab + b^2)}{(a^2 - ab + b^2)}$$

$$= a + b$$

So, answer = $8.73 + 4.27 = 13$

24. (D) $\frac{x_1 + x_2 + x_3}{3} = 28$

$$\Rightarrow \boxed{x_1 + x_2 + x_3 = 84}$$

$$\Rightarrow x_1 = \frac{x_2}{2} \Rightarrow x_2 = 2x_1$$

$$\Rightarrow x_3 = 2x_2 = 2 \times 2x_1 = 4x_1$$

Now,

$$x_1 + x_2 + x_3 = 84$$

$$\Rightarrow x_1 + 2x_1 + 4x_1 = 84$$

$$\Rightarrow 7x_1 = 84$$

$$x_1 = \frac{84}{7} = 12$$

So, $x_3 = 4x_1 = 4 \times 12 = 84$

25. (A) 8 men + 12 children, work in 9 days.

From question,

$$1 \text{ men} = 2 \text{ children}$$

$$\therefore 6 \text{ men} = 12 \text{ children.}$$

$$\therefore 8 \text{ men} + 12 \text{ children}$$

$$= 8 \text{ men} + 6 \text{ men} = 14 \text{ men.}$$

$$\therefore 14 \text{ men complete a work in 9 days.}$$

$$\therefore 1 \text{ man complete a work in } 14 \times 9 \text{ days}$$

$$\therefore 12 \text{ men complete a work in } \frac{14 \times 9}{12} \text{ days}$$

$$= \frac{21}{2} = 10 \frac{1}{2} \text{ days}$$

26. (C) $(\sqrt{8})^{\frac{1}{3}} = (\sqrt{2^3})^{\frac{1}{3}}$

$$= \left(2^{\frac{3}{2}}\right)^{\frac{1}{3}} = 2^{1/2} = \sqrt{2}$$

27. (C) Let the no. of coins of 20 paise and 25 paise are x and y respectively.

$$\therefore x + y = 324 \quad \dots(1)$$

\therefore From question,

$$0.20x + 0.25y = 71$$

$$\Rightarrow 20x + 25y = 7100 \quad \dots(2)$$

From equation (1) and (2),

$$20x + 25y = 7100 \quad \dots(2)$$

$$\underline{x + y = 324 \quad \dots(1) \times 20}$$

$$\Rightarrow 20x + 25y = 7100$$

$$20x + 20y = 6480$$

$$\begin{array}{r} - \quad - \quad - \\ 5y = 620 \\ \Rightarrow y = 124 \end{array}$$

28. (B) 4) 2403(600.75

$$\begin{array}{r} 24 \\ 030 \\ 28 \\ 20 \\ 20 \\ \times \end{array}$$

29. (B) Number of women = $(100 - 55)\%$ of 64100

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

30. (D) The length of the train = speed \times time taken of cross the signal

$$= 90 \times \frac{5}{18} \times 10 = 5 \times 5 \times 10 = 250 \text{ m}$$

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HARYANA SSC MOCK TEST - 31 (ANSWER KEY)

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

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