

HARYANA SSC MOCK TEST-34 (Solution)

1. (D) $6 : 34 :: 9 : 79$

$$\begin{array}{cc} \downarrow 6^2-2 \uparrow & \downarrow 9^2-2 \uparrow \\ 34 & 79 \end{array}$$

2. (B) $352 \Rightarrow 3 \times 5 \times 2 = 30$

$$296 \Rightarrow 2 \times 9 \times 6 = 108$$

$$628 \Rightarrow 6 \times 2 \times 8 = 96$$

3. (C) First is the result of the second i.e., when second happens, First arise. Like this due to provocation Anger arise.

4. (C) (A) O H A (B) P I B

$$\begin{array}{cc} \downarrow -7 \uparrow \downarrow -7 \uparrow & \downarrow -7 \uparrow \downarrow -7 \uparrow \\ O & H & A & P & I & B \end{array}$$

(C) J Q C (D) R K D

$$\begin{array}{cc} \downarrow +7 \uparrow \downarrow -14 \uparrow & \downarrow -7 \uparrow \downarrow -7 \uparrow \\ J & Q & C & R & K & D \end{array}$$

5. (D) (B) Mother, Sister and Brother denote blood-relation but friend does not denote blood-relation.

6. (B) Swim, Climb and Run are physical activities but listen is a mental activity.

7. (B)

8. (D)

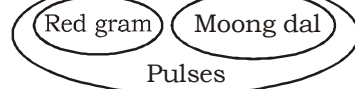
9. (B)

$$\begin{array}{ccccccc} & +0 & & +0 & & & \\ & \downarrow & & \downarrow & & & \\ A & D & G & G & J & M & M & P & S \\ \downarrow +3 \uparrow \downarrow +3 \uparrow & & \downarrow +3 \uparrow \downarrow +3 \uparrow & & \downarrow +3 \uparrow \downarrow +3 \uparrow & & \downarrow +3 \uparrow \downarrow +3 \uparrow & & \downarrow +3 \uparrow \downarrow +3 \uparrow \end{array}$$

10. (C) A C F K R

$$\begin{array}{ccccc} \downarrow +2 \uparrow & \downarrow +3 \uparrow & \downarrow +5 \uparrow & \downarrow +7 \uparrow & \\ A & C & F & K & R \end{array}$$

11. (A)



12. (B)

13. (A)

14. (D)

15. (D) B → 01, **11**, 21, 34, 43

$$L \rightarrow 06, 50, \mathbf{66}, 75, 88$$

$$A \rightarrow 00, \mathbf{12}, 21, 34, 43$$

$$C \rightarrow 02, 14, \mathbf{20}, 33, 42$$

$$K \rightarrow 05, \mathbf{57}, 67, 77, 80$$

16. (B) Let the original price ₹ x then,

$$x \times \frac{(100 - 20)}{100} \times \frac{(100 - 15)}{100} = 408$$

$$x = \frac{408 \times 100 \times 100}{80 \times 85} = ₹ 600$$

17. (B) $12000 \xrightarrow{10\% \text{ discount}} = 12000$

$$10800 \xrightarrow{20\% \text{ discount}} = 10800$$

$$\text{Net CP} = 12000 - (1200 + 2160) = ₹ 8640$$

$$\% \text{ profit} = \frac{(10800 - 8640)}{8640} \times 100 = 25\%$$

18. (D) If the interest and time are same

$$\frac{P_1}{P_2} = \frac{r_2}{r_1}$$

Where P_1 and P_2 are two principals

$$\frac{P_1}{P_2} = \frac{15}{11} = \frac{15}{11} = 15:11$$

Amount deposited in Bank B

$$= \frac{11}{(15 + 11)} \times 2600$$

$$= ₹ 1100$$

19. (D) Suppose the amounts deposited in the name of A and B be ₹ x and ₹ $(2523 - x)$

$$\text{then, } x \left(1 + \frac{5}{100}\right)^3 = (2523 - x) \left(1 + \frac{5}{100}\right)^5$$

$$\text{or } x \times \left(\frac{21}{20}\right)^3 = (2523 - x) \left(\frac{21}{20}\right)^5$$

$$\text{or } \frac{x}{2523 - x} = \left(\frac{21}{20}\right)^{5-3} = \left(\frac{21}{20}\right)^2 = \frac{441}{400}$$

$$\text{or } 400x = 441 \times 2523 - 441x$$

$$\text{or } 841x = 441 \times 2523$$

$$\therefore x = \frac{441 \times 2523}{841} = ₹ 1323$$

20. (A) Suppose the concentration of acids in two containers A and B are $x\%$ and $y\%$ respectively.

$$\text{quantity of Acid in A} = 6 \times \frac{x}{100}$$

$$\text{quantity of Acid in B} = 3 \times \frac{y}{100}$$

Suppose k litre acid is emptied from each container,

then

$$\text{Total acid in A} = \frac{6x}{100} - \frac{C \times x}{100} + \frac{C \times y}{100}$$

$$\text{Total acid in B} = \frac{3y}{100} - \frac{C \times y}{100} + \frac{C \times x}{100}$$

By question

$$\frac{\frac{6x}{100} - \frac{kx}{100} + \frac{ky}{100}}{6} \times 100 = \frac{\frac{3y}{100} - \frac{ky}{100} + \frac{kx}{100}}{3} \times 100$$

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$$\frac{6x}{100} - \frac{kx}{100} + \frac{ky}{100} = \frac{6y}{100} - \frac{2ky}{100} + \frac{2kx}{100}$$

$$\frac{6(x-y)}{100}(x-y) = \frac{3k}{100}(x-y)$$

$$\Rightarrow k = 2 \text{ litres.}$$

21. (C) $\frac{100 \times 45}{\frac{1}{4}} = \frac{m_2 \times (120 - 45)}{\left(1 - \frac{1}{4}\right)}$

$$\therefore \frac{100 \times 45 \times 3 \times 4}{75 \times 4 \times 1} = 180$$

$$\therefore \text{Required number of men } 180 - 100 = 80$$

22. (D) Let the present age of B = x years
then, present age of A = $3x + 5$ years
According to question

$$(3x + 5) + 5 = (x - 3) \times 5 + 5$$

$$3x + 10 = 5x - 10$$

$$x = 10$$

$$\text{Age of A} = 3x + 5 = 3 \times 10 + 5 = 35 \text{ years}$$

23. (C) Share of Y and Z = $1058 \times \frac{8}{23} = ₹ 368$

$$\therefore \text{share of X} = 1058 - 368 = ₹ 690$$

24. (D) Tank filled in 1 hour
= $(42 + 56 - 48)$ litres
= 50 litres

$$\text{quantity of water in the tank in 16 hours} = 16 \times 50 = 800 \text{ litres}$$

25. (A) Boys = $\frac{5}{9} \times 45 = 25$ and girls $45 - 25 = 20$

\therefore Required average

$$= \frac{25 \times 76 + 20 \times 78}{45} = \frac{3460}{45}$$

$$= 76.89 \text{ (approx)}$$

26. (C) Time taken by A to make one round

$$= 5 \div \frac{5}{2} = 2 \text{ hours}$$

Time taken by B = $\frac{5}{3}$ hours and that by

$$C = \frac{5}{2} \text{ hours}$$

Required time = LCM of $\left(2, \frac{5}{3}, \frac{5}{2}\right)$

$$= \frac{\text{LCM of } (2, 5, 5)}{\text{HCF of } (1, 3, 2)} = \frac{10}{1} = 10 \text{ hours}$$

27. (C) Let the speeds of the trains A and B be x and y km/hr respectively

$\frac{\text{speed of A}}{\text{speed of B}}$

$$= \sqrt{\frac{\text{Time taken by B after meeting}}{\text{Time taken by A after meeting}}}$$

$$\frac{84}{b} \sqrt{\frac{7 \frac{7}{20}}{5 \frac{2}{5}}}$$

$$\frac{84}{b} \sqrt{\frac{147 \times 5}{20 \times 27}} = \frac{7}{6}$$

$$\Rightarrow b = \frac{84 \times 6}{7} = 72 \text{ km/hr}$$

$$\begin{aligned} \text{Total distance} &= 84 \times \frac{27}{5} + 72 \times \frac{147}{20} \\ &= 453.6 + 529.2 \\ &= 982.8 \text{ km/hr} \end{aligned}$$

28. (B) Ratio of speeds of stream and 1st boat
= 2 : 5 = 6 : 15

Ratio of speeds of stream and 2nd boat
= 3 : 4 = 6 : 8

\therefore Required ratio of the speeds of two boats
= 15 : 8

29. (D) Length of diagonal = $52 \times \frac{15}{60} = 13$ m

$$\text{Length along sides} = 68 \times \frac{15}{60} = 17 \text{ m}$$

Now, $l + b = 17$

$$\text{and } \sqrt{l^2 + b^2} = 13$$

$$\Rightarrow l^2 + b^2 = 169$$

$$\Rightarrow (17 - b)^2 + b^2 = 169$$

$$\Rightarrow 289 - 34b + 2b^2 = 169$$

$$\Rightarrow b^2 - 17b + 60 = 0$$

$$\Rightarrow (b - 12)(b - 5) = 0$$

$$\Rightarrow b = 5, 12$$

$$\therefore l = 12, 5$$

$$\therefore \text{Area of the ground} = 12 \times 5 = 60 \text{ m}^2$$

30. (D) $r = \frac{140}{2} = 70$

$$\text{Total area of the canvas} = 2\pi rh + \pi r l$$

$$= \pi r(2h + l) = \frac{22}{7} \times 70(2 \times 5 + 60)$$

$$= 220 \times 70 = 15400 \text{ sq. m}$$


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HARYANA SSC MOCK TEST - 34 (ANSWER KEY)

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

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