

HARYANA SSC MOCK TEST-17 (Solutions)

1. (A) $8 * 3 : 24 :: 6 * 5 : 30$
 2. (D) Cube formed by using square similarly sphere formed by using circle
 3. (B) Paper made by tree similarly glass made by Sand.
 4. (D) $\begin{matrix} T & R & P & N & : & L & J & H & F & : & Z & X & V & T & : & R & P & N & L \\ \downarrow & \downarrow & \downarrow & \downarrow & & \downarrow & \downarrow & \downarrow & \downarrow & & \downarrow & \downarrow & \downarrow & \downarrow & & \downarrow & \downarrow & \downarrow & \downarrow \\ -2 & -2 & -2 & -2 & & -2 & -2 & -2 & -2 & & -2 & -2 & -2 & -2 & & -2 & -2 & -2 & -2 \end{matrix}$

5. (C) Except kerosene all are used in vehicle.

6. (B) $\begin{matrix} A & C & F \\ \downarrow & \downarrow & \downarrow \\ +2 & +3 & +3 \\ I & K & N \\ \downarrow & \downarrow & \downarrow \\ +2 & +3 & +3 \\ M & O & R \\ \downarrow & \downarrow & \downarrow \\ +2 & +3 & +3 \\ \text{so } E & G & I \\ \downarrow & \downarrow & \downarrow \\ +2 & +2 & +2 \end{matrix}$

7. (A)

8. (B) $\frac{\text{Perk}}{4} \frac{\text{Pick}}{1} \frac{\text{Pile}}{3} \frac{\text{Pith}}{2} \frac{\text{Pour}}{5}$

9. (D) **b a t d a / d a d d a d / b a t d a d**

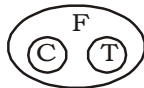
10. (B) $\begin{matrix} \downarrow & & \downarrow & & \downarrow & & \downarrow \\ G & O & N & J & R & Q & M & U & T & P & X & W \\ \uparrow & \uparrow & \uparrow & \uparrow & \uparrow & \uparrow & \uparrow & \uparrow & \uparrow & \uparrow & \uparrow & \uparrow \\ +7 & -4 & +7 & -4 & +7 & -4 & +7 & -4 & +7 & -4 & +7 & -4 \end{matrix}$

11. (C) **STANDAING**

12. (C) $\begin{matrix} +1 \\ \text{M A D R A S} \\ \downarrow \downarrow \downarrow \downarrow \downarrow \\ \text{N B E S B T} \end{matrix}$

Similarly, $\begin{matrix} +1 \\ \text{B O M B A Y} \\ \downarrow \downarrow \downarrow \downarrow \downarrow \\ \text{C P N C B Z} \end{matrix}$

13. (C) Table and chair are known as Furniture



14. (D) $6 \times \underline{5} + 2 = 32$
 $4 \times \underline{5} + 7 = 27$

Similarly,
 $6 \times \underline{5} + 7 = \mathbf{37}$

15. (D)

Alternate series of 3 and 6 follows

$8 + 0 + 9 + 4 \Rightarrow 2 + 1 = 3$

$2 + 1 = 3$

$2 + 4 = 6$

$8 + 4 \Rightarrow 1 + 2 = 3$

$8 + 6 + 1 \Rightarrow 1 + 5 = 6$

$2 + 2 + 7 + 1 \Rightarrow 1 + 2 = 3$

So next will be 6 from given options only (D) is satisfied $-2 + 4 + 5 + 4 \Rightarrow 1 + 5 = \mathbf{6}$

16. (C) $R = (r_1 + r_2) - \text{divisor}$

R is the remainder when sum of both the numbers is divided by divisor.

[NOTE: If R becomes -ve, then remainder R

$= (r_1 + r_2)$

$R = 7$

$r_1 = 15$

$r_2 = 39$

$7 = 39 + 15 - \text{Divisor}$

$\text{Divisor} = 47$

17. (A) $\frac{\sqrt{2} + \sqrt{3}}{3\sqrt{2} - 2\sqrt{3}} \times \frac{3\sqrt{2} + 2\sqrt{3}}{3\sqrt{2} + 2\sqrt{3}}$
 $= \frac{6 + 3\sqrt{6} + 2\sqrt{6}}{(3\sqrt{2})^2 - (2\sqrt{3})^2} = \frac{12 + 5\sqrt{6}}{6}$
 $= 2 + \frac{5}{6}\sqrt{6} = a + b\sqrt{6}$

$a = 2; b = \frac{5}{6}$

18. (D) $a^2 + b^2 + c^2 - ab - bc - ca$

$= \frac{1}{2}[(a-b)^2 + (b-c)^2 + (c-a)^2]$

$= \frac{1}{2}[(-1)^2 + (-1)^2 + (2)^2] = \frac{1}{2} \times 6 = 3$

19. (C) Increase in amount due to price rise

$= 25\% \text{ of } ₹ 500.$

$= \frac{25}{100} \times 500 = ₹ 125$

Increase price of 50 oranges = Rs. 125

Increase price per dozen = $\frac{125}{50} \times 12 = ₹ 30$

20. (C) Total earning for the week

$= 4 \times 18 + 4 \times 22 - 20 = ₹ 140$

Average earning = $₹ \left(\frac{140}{7}\right) = ₹ 20$

21. (A) Part of spirit in the first mixture = $\frac{3}{3+1} = \frac{3}{4}$

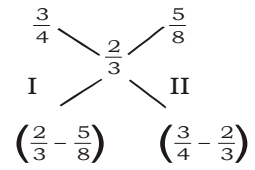
Part of spirit in the second mixture = $\frac{5}{5+3} = \frac{5}{8}$

Part of spirit in the new mixture = $\frac{2}{2+1} = \frac{2}{3}$



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$$\frac{\text{Quantity of mixture I}}{\text{Quantity of mixture II}} = \frac{\frac{2}{3} - \frac{5}{8}}{\frac{3}{4} - \frac{2}{3}} = \frac{1}{2}$$

22. (C) S.P. of 12 articles = C.P. of 12 articles - S.P. of 3 articles
 S.P. of 15 articles = C.P. of 12 articles
 Let C.P. of 1 article be ₹ 1
 S.P. of 15 articles = ₹ 12
 C.P. of 15 articles = ₹ 15
 Loss = ₹ 3

$$\text{Loss \%} = \frac{3}{15} \times 100 = 20\%$$

23. (B) Let the CP be ₹ 100
 Profit = 19%
 Selling Price = ₹ 100 + 19 = ₹ 119
 Discount = 15%
 SP = 85% of MP
 85% of MP = 119

$$\Rightarrow \text{MP} = \frac{119}{85} \times 100 = 140$$

He must mark 40% above C.P.

24. (B) Let the share of A and B be x and y respectively.
 R = 4%

$$\text{A's share at end of 7 years} = x \left(1 + \frac{4}{100}\right)^7$$

$$\text{B's share at end of 9 years} = y \left(1 + \frac{4}{100}\right)^9$$

According to question

$$x \left(1 + \frac{4}{100}\right)^7 = y \left(1 + \frac{4}{100}\right)^9$$

$$\Rightarrow \frac{x}{y} = \frac{676}{625}$$

$$\text{Share of A} = \frac{676}{676 + 625} \times 39030 = \text{Rs. } 20280$$

25. (A) $1 + \frac{1}{1 + \frac{2}{2 + \frac{3 \times 5}{5 + 4}}}$

$$= 1 + \frac{1}{1 + \frac{2}{2 + \frac{15}{9}}} = 1 + \frac{1}{1 + \frac{2}{2 + \frac{5}{3}}}$$

$$= 1 + \frac{1}{1 + \frac{2 \times 3}{6 + 5}} = 1 + \frac{1 \times 11}{11 + 6}$$

$$= 1 + \frac{11}{17} = 1 \frac{11}{17}$$

26. (B) Speed of current = y kmph
 Speed of boat in still water = x kmph
 Speed upstream (U) = x - y
 Speed downstream (D) = x + y
- $$\frac{30}{U} + \frac{44}{D} = 10$$
- $$\frac{40}{U} + \frac{55}{D} = 13$$
- Put $\frac{1}{U} = P$ and $\frac{1}{D} = Q$
 (30P + 44Q = 10) (1)
 (40P + 55Q = 13) (2)
 176Q - 165Q = 1 [Eqn. (1) × 4 - Eqn. (2) × 3]
 Q = $\frac{1}{11} \Rightarrow D = 11 \text{ kmph} = x + y$ (3)

$$30P + \frac{44}{11} = 10 \Rightarrow P = \frac{1}{5}$$

$$\Rightarrow U = 5 \text{ kmph} = x - y$$
 (4)

Adding equation (3) and (4)

$$\Rightarrow x = 8 \text{ kmph (speed of boat in still water)}$$

27. (D) $\frac{\text{Speed of A}}{\text{Speed of B}} = \sqrt{\frac{T_B}{T_A}} = 3 : 2$

28. (A) Suppose B joined after x months. Then B's money remained invested for (12 - x) months.

$$2100 \times 12 = 3600 \times (12 - x)$$

$$3600x = 43200 - 25200$$

$$x = \frac{18000}{3600} = 5$$

B joined after 5 months.

29. (B) A, gains one complete round on C, in 1760 ÷ (160 - 105) or 1760 ÷ 55 i.e. 32 minutes.

A, gains one complete round on B in 1760 ÷ (160 - 120) or 1760 ÷ 40 i.e. 44 minutes

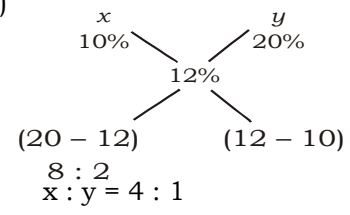
A and C are together after every 32 minutes

A and B are together after every 44 minutes

A, B and C will be together the time which is LCM of 32 and 44.

i.e. 352 minutes

30. (B)



$$\frac{8}{2} : \frac{2}{2} = 4 : 1$$

$$\text{Quantity sold at 20\% profit} = \frac{1}{4 + 1} \times 100 = 20 \text{ kg}$$



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HARYANA SSC MOCK TEST - 17 (ANSWER KEY)

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