

HARYANA SSC MOCK TEST-22 (Solutions)

1. (C) 2nd is improved form of former.

2. (C)

3. (A) $A Z B Z : C Y D Y :: E X F X : G W H W$
 same -1 same same -1 same
 +1 +1 +1 +1 +1 +1 +1 +1

4. (B) Trunk, Fruit and leaf are the parts of the tree.

5. (C) $15 = 3 \times 5$

$$35 = 5 \times 7$$

$$99 = 9 \times 11$$

$$77 = 7 \times 11$$

Except (C), others are product of consecutive prime numbers. 9 is not a prime number.

6. (D) All others live both on land and water.

7. (C) $313 \quad 623 \quad 933 \quad 1243 \quad 1553$
 +310 +310 +310 +310 +310

8. (A) $7 \quad 8 \quad 10 \quad 13 \quad 17 \quad 22$
 +1 +2 +3 +4 +5

9. (B) $69 \quad 72 \quad 78 \quad 87 \quad 99 \quad 114$
 +3 +6 +9 +12 +15

10. (C) m a n / m a n / m a n / m a n / m a n

11. (C) M a d a g a s c a r
 ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓
 4 7 2 7 8 7 9 6 7 0

M a d r a s
 ↓ ↓ ↓ ↓ ↓ ↓ ↓
 4 7 2 0 7 9

12. (D) Here, L = O, A = D, M = P and E = H

So, M A L E
 ↓ ↓ ↓ ↓
 P D O H

13. (C) B O W L E D

14. (A)

15. (A)

16. (C) ATQ,

$$40 = \frac{S.P - C.P}{S.P} \times 100$$

$$\Rightarrow \frac{40}{100} = \frac{SP - CP}{SP}$$

$$\Rightarrow \frac{2}{5} = \frac{SP - CP}{SP}$$

$$\Rightarrow 2SP = 5SP - 5CP$$

$$\Rightarrow 3SP = 5CP$$

$$\Rightarrow \frac{CP}{SP} = \frac{3}{5}$$

$$\therefore \text{Profit \% on CP} = \left(\frac{2}{3} \times 100 \right) \% = 66 \frac{2}{3} \%$$

17. (B) Gaurav worked for x days.

Shiv worked for $(x + 5)$ days.

$$\text{Gaurav's 1 day's work} = \frac{1}{15}$$

$$\text{Shiv's 1 day's work} = \frac{1}{10}$$

$$\therefore \frac{x}{15} + \frac{x+5}{10} = 1$$

$$\Rightarrow \frac{2x+3x+15}{30} = 1$$

$$\Rightarrow 5x + 15 = 30$$

$$\Rightarrow 5x = 15 \Rightarrow x = 3 \text{ days}$$

18. (D) $\frac{p}{q} = \frac{7}{8} \dots(1)$

$$\frac{q}{r} = \frac{12}{7} \dots(2)$$

Multiplying both the equation

$$\frac{p}{q} \times \frac{q}{r} = \frac{7}{8} \times \frac{12}{7}$$

$$\Rightarrow \frac{p}{r} = \frac{3}{2}$$

$$\therefore p : r = 3 : 2$$

19. (B) $5852 \div 28 \times ? - 1653 = 1064$

$$\Rightarrow \frac{5852}{28} \times ? = 1653 + 1064 = 2717$$

$$\Rightarrow 209 \times ? = 2717$$

$$\Rightarrow ? = \frac{2717}{209} = 13$$

20. (C) Let the 3-digit number be x
 According to the question,

$$\frac{x \times 30}{100} = 190.8$$

$$\Rightarrow x = \frac{190.8 \times 100}{30} = 636$$

$$\therefore 150\% \text{ of } 636 = \frac{636 \times 150}{100} = 954$$

21. (C) Sum of remaining 48 numbers
 $= 40 \times 50 - 45 - 55 = 1900$

$$\therefore \text{Required average} = \frac{1900}{48} = 39.58$$

22. (B) $\frac{a}{b} = \frac{4}{5}; \frac{b}{c} = \frac{15}{16}$
 $\therefore \frac{a}{b} \times \frac{b}{c} = \frac{4}{5} \times \frac{15}{16}$
 $\Rightarrow \frac{a}{c} = \frac{3}{4} \Rightarrow \frac{a^2}{c^2} = \frac{9}{16}$

$$\therefore \frac{c^2 - a^2}{c^2 + a^2} = \frac{1 - \frac{a^2}{c^2}}{1 + \frac{a^2}{c^2}}$$

(On dividing numerator and denominator by c^2)

$$= \frac{1 - \frac{9}{16}}{1 + \frac{9}{16}} = \frac{16 - 9}{16 + 9} = \frac{7}{25}$$

23. (B) (A + B)'s 1 day's work

$$= \frac{1}{24} + \frac{1}{12} = \frac{2+1}{24} = \frac{3}{24}$$

24. (C) Principal = P
 If becomes thrice in 20 years.
 So amount = 3P
 \therefore Interest = 3P - P = 2P

$$\therefore \text{Interest} = \frac{P \times R \times T}{100}$$

$$\Rightarrow 2P = \frac{P \times 20 \times R\%}{100}$$

$$\Rightarrow R = \frac{2P \times 100}{20P} = 10\%$$

25. (C) Numbers = 2x and 3x
 Their LCM = 2 × 3 × x = 6x

$$\therefore 6x = 54 \Rightarrow x = \frac{54}{6} = 9$$

$$\therefore \text{Sum of numbers} = 2x + 3x = 5x = 5 \times 9 = 45$$

26. (C) $\frac{1 + \frac{3}{4}}{1 - \frac{3}{4}} \times \frac{1 + \frac{1}{4}}{1 - \frac{1}{4}} \times \sqrt{3}$
 $= \frac{\frac{7}{4}}{\frac{1}{4}} \times \frac{\frac{5}{4}}{\frac{3}{4}} \times \sqrt{3}$
 $= 7 \times 5 \times \sqrt{3} = 35\sqrt{3}$

27. (D) Area of room = 12 m × 8 m = 96m²
 Total spent = 96m² × 15/m² = ₹ 1440

28. (A) Let the income of C = ₹ 125

$$\therefore \text{income of B} = ₹ 125 \times \frac{80}{100} = ₹ 100$$

$$\therefore \text{income of A} = ₹ 100 \times \frac{110}{100} = ₹ 110$$

\therefore Ratio of income of A, B and C
 = 110 : 100 : 125 = 22 : 20 : 25

29. (B) Let the speed of man = x km/h and the speed of stream = y km/h.

$$\therefore x + y = \frac{26}{2} \text{ km/h}$$

$$\Rightarrow x + y = 13 \quad \dots(1)$$

$$\text{and } x - y = \frac{14}{2} \text{ km/h}$$

$$\Rightarrow x - y = 7 \quad \dots(2)$$

adding eq.(1) and (2), we get

$$2x = 20 \Rightarrow x = 10 \text{ km/hr}$$

$$\text{and } y = 3 \text{ km/hr.}$$

\therefore Speed of stream of river = 3 km/h.

30. (B) Fraction = $\frac{6}{8}$ (from option)

$$\text{Illustration} = \frac{6}{8+4} = \frac{6}{12} = \frac{1}{2}$$

$$\text{and } \frac{6-5}{8} = \frac{1}{8}$$


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HARYANA SSC MOCK TEST - 22 (ANSWER KEY)

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

Correction of Mock test-21

86. (*) Question is wrong.

90. (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