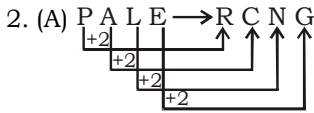
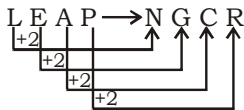


HARYANA SSC MOCK TEST-11 (Solutions)

1. (C) BRAIN



Similarly,



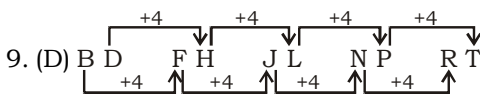
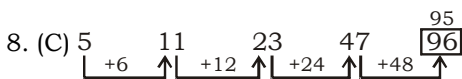
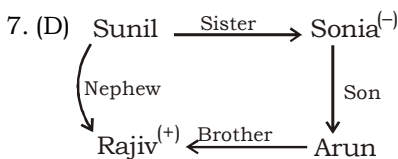
3. (D) I { Raju
Vasant
Manohar } II { Manohar
Jayant
Dutta }

I + II { Raju
Vasant
Manohar
Jayant
Dutta }

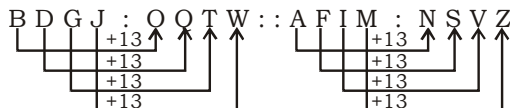
4. (C) All are parts of a car.

5. (D) 256 is square of 16; Except (D) all are divisible by 5.

6. (A) $\frac{\text{field}}{5} \frac{\text{grain}}{4} \frac{\text{rat}}{1} \frac{\text{snake}}{3} \frac{\text{eagle}}{2}$



10. (C)



11. (D) G $\xrightarrow{\text{Opposite}}$ T $\xrightarrow{\text{Place value}}$ 20
A $\xrightarrow{\text{Opposite}}$ Z $\xrightarrow{\text{Place value}}$ 26
R $\xrightarrow{\text{Opposite}}$ I $\xrightarrow{\text{Place value}}$ 9
M $\xrightarrow{\text{Opposite}}$ N $\xrightarrow{\text{Place value}}$ 14
E $\xrightarrow{\text{Opposite}}$ V $\xrightarrow{\text{Place value}}$ 22
N $\xrightarrow{\text{Opposite}}$ M $\xrightarrow{\text{Place value}}$ 13
T $\xrightarrow{\text{Opposite}}$ G $\xrightarrow{\text{Place value}}$ 7

Similarly,

I $\xrightarrow{\text{Opposite}}$ R $\xrightarrow{\text{Place value}}$ 18
N $\xrightarrow{\text{Opposite}}$ M $\xrightarrow{\text{Place value}}$ 13
D $\xrightarrow{\text{Opposite}}$ W $\xrightarrow{\text{Place value}}$ 23
U $\xrightarrow{\text{Opposite}}$ F $\xrightarrow{\text{Place value}}$ 6
L $\xrightarrow{\text{Opposite}}$ O $\xrightarrow{\text{Place value}}$ 15
G $\xrightarrow{\text{Opposite}}$ T $\xrightarrow{\text{Place value}}$ 20
E $\xrightarrow{\text{Opposite}}$ V $\xrightarrow{\text{Place value}}$ 22

12. (C)

13. (B) $7 \times (10 \div 2) = 35$ and
 $15 \times (12 \div 2) = 90$

Similarly,

$$6 \times (x \div 2) = 12$$

$$\Rightarrow 6 \times \frac{x}{2} = 12$$

$$\Rightarrow 3x = 12$$

$$\therefore x = 12 \div 3 = 4$$

14. (B) After changing the signs according to question, the new equation will be

$$8 \div 2 - 3 \times 4 + 6$$

$$\Rightarrow 4 - 3 \times 4 + 6$$

$$\Rightarrow 4 - 12 + 6$$

$$\Rightarrow 10 - 12 = -2$$

15. (B)

16. (D)

17. (D) Let the two numbers are a and b , where $a > b$.

So, ATQ, $a - b = 3$ (i)

and $a^2 - b^2 = 39$

Now, $a^2 - b^2 = (a - b)(a + b)$

i.e. $39 = 3 \times (a + b)$

$$\Rightarrow a + b = \frac{39}{3} = 13 \quad \text{..... (ii)}$$

Now, (i) + (ii) \Rightarrow

$$\begin{array}{r} a - b = 3 \\ a + b = 13 \\ \hline 2a = 16 \\ \Rightarrow a = 8 \end{array}$$

\Rightarrow The larger number = 8

18. (D) Let x = true discount

So, $216 = x + 8\% \text{ of } x$

$$= x + 0.08x$$

$$= 1.08x$$

$$x = \frac{216}{1.08}$$

$$= ₹ 200$$


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19. (B) Let the numbers be $2x$ and $3x$
 LCM of $2x$ and $3x = 6x$ (\because LCM of 2 and 3 = 6)
 Given that LCM of $2x$ and $3x$ is 48
 $\Rightarrow 6x = 48$
 $\Rightarrow x = 8$
 Sum of the numbers
 $2x + 3x = 5x$
 $\Rightarrow 5 \times 8 = 40$

20. (D) Weight of new man
 = Weight of replaced man + Total increased weight
 $= 55 \text{ kg} + \left(12 \times \frac{1}{3}\right) \text{ kg}$
 $= 55 \text{ kg} + 4 \text{ kg} = 59 \text{ kg}$

21. (A) Let the four consecutive even numbers are $x, x+2, x+4$ and $x+6$
 So, Their average = $\frac{x+x+2+x+4+x+6}{4} = 9$
 $\Rightarrow 4x + 12 = 36$
 $\Rightarrow 4x = 24$
 $\Rightarrow x = 6$
 So, The largest number = $x + 6$
 $= 6 + 6 = 12$

22. (D) Let MP = 100
 So, SP = $100 - 25\%$ of 100
 $= 100 - 25 = 75$
 So, Profit percent = $\frac{100 - 75}{75} \times 100\%$
 $= \frac{25}{75} \times 100\% = \frac{1}{3} \times 100\% = 33\frac{1}{3}\%$

23. (C) Let present age of P and Q be $3x$ and $4x$ respectively
 Ten years ago, P was half of Q's age
 $\Rightarrow (3x - 10) = \frac{1}{2}(4x - 10)$
 $\Rightarrow 6x - 20 = 4x - 10$
 $\Rightarrow 2x = 10$
 $\Rightarrow x = 5$
 Total of their present ages
 $3x + 4x = 7x \Rightarrow 7 \times 5 = 35$

24. (A) $\sqrt[3]{3^n} = 27$
 $= \sqrt[3]{27^3} = \sqrt[3]{(3^3)^3} = \sqrt[3]{3^9}$
 $\Rightarrow n = 9$

25. (A) ₹320 - 1st discount
 $= ₹320 - 10\%$ of ₹320
 $= ₹320 - ₹32 = ₹288$

Now, ₹288 - 2nd discount = ₹244.80
 \Rightarrow 2nd discount = ₹288 - ₹244.80
 $= ₹43.20$

So, Rate of 2nd discount = $\frac{43.20}{288} \times 100\%$
 $= 15\%$

26. (A) 125% of $x = 100$

$$\Rightarrow \frac{125}{100} \times x = 100$$

$$\Rightarrow x = \frac{100 \times 100}{125} = 80$$

27. (C) A : B

Ratio of efficiency = 3 : 1

So,

Ratio of time taken = 1 : 3

\Rightarrow Difference of Ratio of time taken
 $= 3 - 1 = 2$

Actual difference of days = 60 days

$\Rightarrow 2 \longrightarrow 60$ days

So, days taken by A ; 1 \longrightarrow 30 days

and, days taken by B ; 3 \longrightarrow 90 days

So, Time in which they can do it together

$$= \frac{30 \times 90}{30 + 90} \text{ days}$$

$$= \frac{2700}{120} \text{ days}$$

$$= 22\frac{1}{2} \text{ days.}$$

28. (B) $121 \times 5^4 = ?$

$$= 121 \times \left(\frac{10}{2}\right)^4$$

$$= \frac{121 \times 10000}{16}$$

$$= 7.5625 \times 10000$$

$$= 75625$$

29. (C) Required %

$$= \frac{\text{Number of games won}}{\text{Number of games played}} \times 100\%$$

$$= \frac{24}{40} \times 100\% = 60\%$$

30. (D) 2 is a prime number. A prime number is a natural number greater than 1 which has no positive divisors other than 1 and itself.

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HARYANA SSC MOCK TEST - 11 (ANSWER KEY)

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