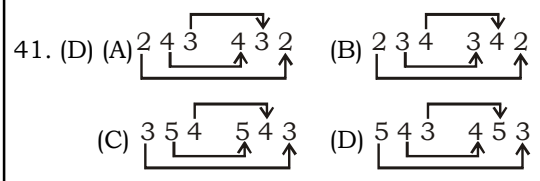


HARYANA SSC MOCK TEST - 48 (SOLUTION)

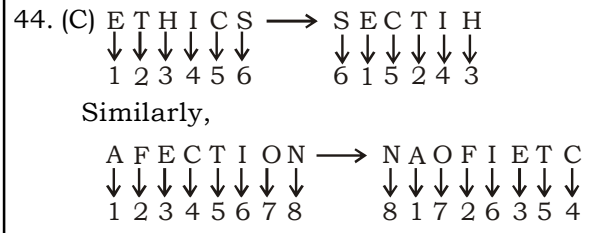
- | | | | |
|---------|---------|---------|----------|
| 1. (D) | 26. (B) | 51. (B) | 76. (B) |
| 2. (*) | 27. (A) | 52. (D) | 77. (B) |
| 3. (C) | 28. (B) | 53. (D) | 78. (B) |
| 4. (B) | 29. (B) | 54. (C) | 79. (D) |
| 5. (C) | 30. (A) | 55. (B) | 80. (A) |
| 6. (A) | 31. (A) | 56. (C) | 81. (A) |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

Explanation:

2. (*) Sakshi malik
 11. (*) Birendra Singh Dhanoa
 17. (*) 1956



42. (C) 0, 4, 18, 48, 100, 180, **294**
 1^3-1^2 2^3-2^2 3^3-3^2 4^3-4^2 5^3-5^2 6^3-6^2 7^3-7^2
43. (B) The lack of blood is called Anaemia.
 Similarly the lack of governement is called Anarchy.



45. (B) Given, (11, -18, -25)

$11 \xrightarrow{+7} 18 \xrightarrow{+7} 25$
 In option (B), (19-26-33)

$19 \xrightarrow{+7} 26 \xrightarrow{+7} 33$

46. (B) Ploughing, Sowing, Weeding, Harvesting



47. (C) a **b** / a b **b** / a b **b** / a b b

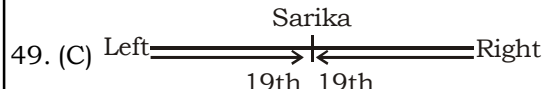
48. (B) Present Grandmother Leela
 $\begin{matrix} & & x & & x-60 \\ \text{After 10 yrs} & x+10 & & x-60+10 \\ & & & = (x-50) \end{matrix}$

So,
 $x + 10 + x - 50 = 100$
 $2x - 40 = 100$
 $2x = 140$
 $x = 70$

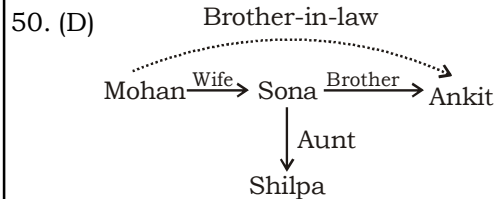
Thus,
 Leela's age = 70 - 60 = 10 yrs
 & Her grandmother's age = 70 yrs

K D
Campus
K D Campus Pvt. Ltd

2007, OUTRAM LINES, 1ST FLOOR, OPPOSITE MUKHERJEE NAGAR POLICE STATION, DELHI-110009

49. (C) 

Total number of students
= 19 + 19 - 1 = 37



51. (B) ∴ 8 men complete a piece of job in 40 days
∴ 1 man complete a piece of job in 40 × 8 days
∴ 10 men complete a piece of job in $\frac{40 \times 8}{10}$
= 32 days

52. (D) $x^4 + \frac{1}{x^4} = \left(x^2 + \frac{1}{x^2}\right)^2 - 2 \cdot x^2 \cdot \frac{1}{x^2}$

$$= \left[\left(x^2 + \frac{1}{x^2}\right)^2 + 2 \cdot x \cdot \frac{1}{x}\right] - 2$$

$$= (2^2 + 2)^2 - 2$$

$$= 36 - 2$$

$$= 34$$

53. (D) Speed of the car = 36 km/h

$$= 36 \times \frac{5}{18} = 10 \text{ m/s}$$

Speed of the bus = $\frac{40+60}{20} = 5 \text{ m/s}$

$$= 5 \times \frac{18}{5} \text{ km/h}$$

$$= 18 \text{ km/h}$$

54. (C) $x = \frac{1}{1+\sqrt{2}}$

$$= \frac{1}{\sqrt{2}+1}$$

$$= \frac{\sqrt{2}-1}{\sqrt{2}-1} = \sqrt{2}-1$$

Now,

$$x^2 + 2x + 3$$

$$= x^2 + 2x + 1 + 2$$

$$= (x+1)^2 + 2$$

$$= (\sqrt{2})^2 + 2$$

$$= 4$$

55. (B) Suppose 5 kg of tea @ Rs. 240/kg and 3 kg of tea @ Rs. 300/kg are blended.

Total cost of the (5 + 3)kg
= 8 kg tea
= 240 × 5 + 300 × 3
= ₹ 2100

Total SP of the tea @ 315/kg
= 8 × 315
= ₹ 2520

$$\% \text{ gain} = \frac{2520 - 2100}{2100} \times 100$$

$$= \frac{420 \times 100}{2100} = 20\%$$

56. (C) $\frac{1+\sqrt{2}}{\sqrt{5}+\sqrt{3}} + \frac{1-\sqrt{2}}{\sqrt{5}-\sqrt{3}}$

$$= \frac{(1-\sqrt{2})(\sqrt{5}-\sqrt{3})}{5-3} + \frac{(1-\sqrt{2})(\sqrt{5}+\sqrt{3})}{5-3}$$

$$= \frac{\sqrt{5}-\sqrt{3}+\sqrt{10}-\sqrt{6}+\sqrt{5}+\sqrt{3}-\sqrt{10}-\sqrt{6}}{2}$$

$$= \frac{2(\sqrt{5}-\sqrt{6})}{2} = \sqrt{5}-\sqrt{6}$$

57. (A) Let the initial investment of A & B be ₹ 4x and ₹ 5x respectively.

Capital withdrawn by A
= $\frac{1}{4}$ of 4x = x

Remaining capital = 3x

Capital withdrawn by B
= $\frac{1}{5}$ of 5x = x

Remaining capital = 4x

$$\frac{\text{Investment of A}}{\text{Investment of B}} = \frac{\text{Profit of A}}{\text{Profit of B}}$$

$$\frac{4x \times 3 + 3x \times 7}{5x \times 3 + 4x \times 7} = \frac{\text{Profit of A}}{\text{Profit of B}}$$

$$\frac{33x}{43x} = \frac{\text{Profit of A}}{\text{Profit of B}}$$

A's share = $\frac{33}{33+43} \times 760$

$$= \frac{33}{76} \times 760$$

$$= ₹ 330$$

K D
Campus
K D Campus Pvt. Ltd

2007, OUTRAM LINES, 1ST FLOOR, OPPOSITE MUKHERJEE NAGAR POLICE STATION, DELHI-110009

58. (D) HCF of $\frac{1}{2}, \frac{3}{4}, \frac{5}{6}, \frac{7}{8}, \frac{9}{10}$

$$= \frac{\text{HCF of numerators}}{\text{LCM of denominators}}$$

$$= \frac{1}{120}$$

59. (D) Let the printed price be Rs. x .

$$\text{SP of the book} = ₹ \frac{9x}{10}$$

$$\text{CP of the book} = \frac{\frac{9x}{10} \times 100}{100 + 15}$$

$$= \frac{9x \times 100}{115 \times 10}$$

$$= \frac{18x}{23}$$

$$\text{Required ratio} = \frac{18x}{23} : x = 18 : 23$$

60. (C) 1st number

= twice of 2nd & 3rd numbers

$$= \frac{1}{3} \text{ of 1st}$$

Let the 1st number = x

$$\text{2nd number} = \frac{x}{2}$$

$$\text{3rd number} = \frac{x}{3}$$

$$x + \frac{x}{2} + \frac{x}{3} = 132$$

$$\frac{6x + 3x + 2x}{6} = 132$$

$$\frac{11x}{6} = 72$$

$$\text{2nd number} = \frac{x}{2} = 36$$

Correction of mock test- 47

55. (B) Suppose the batsman played 'x' innings in beginning

$$\text{Total score in } x \text{ innings} = 21.75x$$

$$\text{Total score in next 3 innings} = 28 + 34 + 37 = 99$$

$$\text{Total score of } (x + 3) \text{ innings} = 21.75x + 99$$

$$\text{New average} = 21.75 + 1.125 = 22.875$$

$$\text{Total score} = \text{New average} \times \text{Total innings}$$

$$21.75x + 99 = (x + 3) \times 22.875$$

$$22.875x - 21.75x = 99 - 68.625$$

$$1.125x = 30.375$$

$$x = 27$$

$$\text{Total number of innings played} = x + 3$$

$$= 27 + 3 = 30$$

61. (C)

63. (C)

65. (B)

67. (D)

70. (B)

76. (A)

80. (D)

98. (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