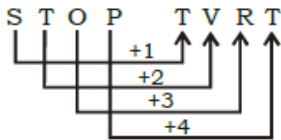


SSC PRE MOCK TEST – 16 (SOLUTION)

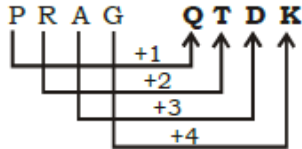
1. (B)

Cow's child is known as Calf. Similarly, Sheep's child is known as **Lamb**.

2. (C)



Similarly,



3. (C)

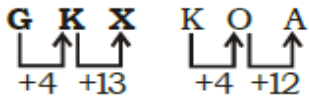
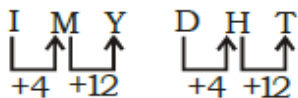
$$562 \Rightarrow 5 \times 6 \times 2 \times \frac{3}{2} = 90$$

$$\text{Similarly, } 663 \Rightarrow 6 \times 6 \times 3 \times \frac{3}{2} = 162$$

4. (D)

Except **Chess**, all games belongs to physical work.

5. (C)



6. (C)

$$120 - 1332 \Rightarrow [(11)^2 - 1] - [(11)^3 + 1]$$

$$168 - 2198 \Rightarrow [(13)^2 - 1] - [(13)^3 + 1]$$

$$197 - 2744 \Rightarrow [(14)^2 + 1] - [(14)^3]$$

$$288 - 4914 \Rightarrow [(17)^2 - 1] - [(17)^3 + 1]$$

7. (A)

Xanthic → Xenians → Xenous → Xyllys → Xyst.

8. (C)

According to Suman, the date will be 14th May and 15th May.

but, according to her brother, the date will be 15th May and 16th May

Hence, Required date = **15th May**

9. (C)

M > all other drinks

E > L only and B < R

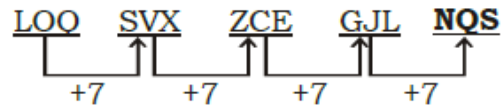
Hence, correct sequence = M > R > B > E > L

Hence, 2nd most sugar content = **R**

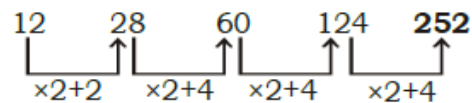
10. (B)

TUNE

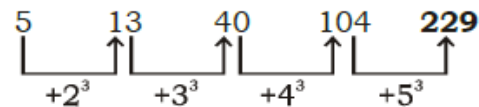
11. (A)



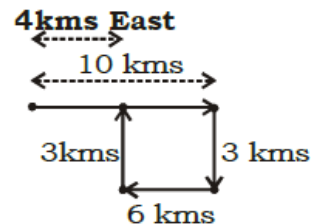
12. (D)



13. (A)



14. (C)



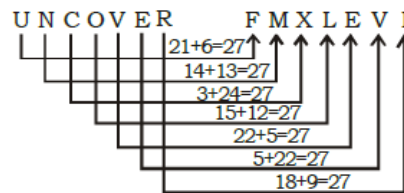
15. (D)

$$10 + 25 - 800 \times 32$$

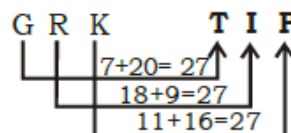
Change the symbol, as per given details,

$$10 \times 25 + 800 \div 32 = 275$$

16. (D)



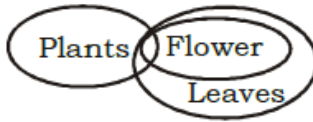
Similarly,



17. (B)

18. (C)

19. (A)



I True

II True

20. (A)

21. (C)

$$(3 + 3) \times 10 = 60$$

$$(5 + 3) \times 10 = 80$$

$$(5 + 8) \times 10 = 130$$

22. (C)

23. (B)

24. (A)

25. (C)

51. (B)

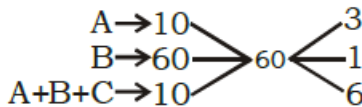
ATQ,

$$2645 = 55 \times 48 + 5$$

Hence, **55** is correct answer.

52. (C)

ATQ,



$$\text{Hence, Required days} = \frac{60}{6-3-1} = \mathbf{30 \text{ days}}$$

53. (A)

ATQ,

$$\begin{aligned} \text{Hence, Required area} &= 11 \times \sqrt{61^2 - 11^2} \\ &= 11 \times 60 \\ &= \mathbf{660 \text{ cm}^2} \end{aligned}$$

54. (A)

ATQ,

Required S.P.

$$= 450 \times \frac{(100+90)}{100} \times \frac{(100-30)}{100} = \mathbf{Rs.598.5}$$

55. (A)

ATQ,

$$\frac{34+x}{114+x} = \frac{52+x}{164+x}$$

$$\Rightarrow x = \mathbf{11}$$

OR

$$\text{from option A} \Rightarrow \frac{34+11}{114+11} = \frac{9}{25} = \frac{52+11}{164+11}$$

$$\text{option B} \Rightarrow \frac{34+12}{114+12} = \frac{23}{63} \neq \frac{52+12}{164+12}$$

$$\text{option C} \Rightarrow \frac{34+9}{114+9} = \frac{43}{123} \neq \frac{52+9}{164+9}$$

$$\text{option D} \Rightarrow \frac{34+16}{114+16} = \frac{5}{13} \neq \frac{52+16}{164+16}$$

56. (C)

ATQ,

$$\frac{12x+83}{13} = x+3$$

$$\Rightarrow x = 44$$

Hence, Required average = $44 + 3 = \mathbf{47}$

57. (A)

ATQ,

$$\begin{aligned} \text{Total gain} &= \frac{\frac{35}{45} - \frac{45}{12}}{\frac{12}{45}} \times 100 \\ &= 86.667\% \quad \square \quad \mathbf{87\%} \end{aligned}$$

58. (B)

ATQ,

$$\begin{aligned} \text{Required amount} &= \frac{1000}{(100+150)} \times 100 \\ &= \mathbf{Rs.400} \end{aligned}$$

59. (B)

ATQ,

$$\frac{60-x}{7} + \frac{x}{5} = 10$$

$$\Rightarrow x = 25 \text{ kms}$$

Hence, Required distance = **25 kms**

60. (A)

ATQ,

$$P \left(\left(1 + \frac{8}{100} \right)^2 - 1 \right) = 3993.6 \quad P = \mathbf{Rs.24000}$$

61. (D)

ATQ,

$$\frac{17}{3} + \frac{3\left(2x - \frac{5}{3}\right)}{2} = \frac{1}{6}$$

$$\Rightarrow \frac{34}{6} + \frac{18x - 15}{6} = \frac{1}{6}$$

$$\Rightarrow x = -1$$

62. (C)

ATQ,

$$a^3 + b^3 = (a + b)((a + b)^2 - 3ab)$$

$$= 15((15)^2 - 3 \times 54)$$

$$= 15 \times 63 = \mathbf{945}$$

63. (A)

ATQ,

$$x + \frac{3}{x} = \frac{37}{10}$$

$$\Rightarrow 10x^2 + 30 - 37x = 0$$

$$\Rightarrow (5x - 6)(2x - 5) = 0$$

$$\Rightarrow x = \frac{6}{5}, \frac{5}{2}$$

64. (B)

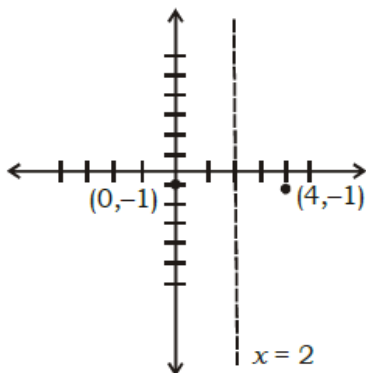
ATQ,

$$a + 3d - a - 7d = 11 - (-9) = 20$$

$$\Rightarrow d = -5 \text{ and } a = 26$$

$$\text{Then, } T_{19} = 26 + (19 - 1) \times (-5) = -64$$

65. (C)



So, required points = $(0, -1)$

66. (D)

ATQ,

Let the point = $(0, y)$

$$\text{then, } (0, y) = \left(\frac{5 \times 1 + m_2(-3)}{m+1}, \frac{1 \times 3 + m \times 1}{m+1} \right)$$

$$\Rightarrow \frac{5 - 3m}{m+1} = 0$$

$$\Rightarrow m = \frac{5}{3}$$

So, required ratio = $5 : 3$

67. (A)

ATQ,

$$7x - 11y = 12$$

$$\Rightarrow 11y = 7x - 12$$

$$\Rightarrow y = \frac{7}{11}x - \frac{12}{11}$$

the coefficient of x is the slope of line when the coefficient of y is 1.

$$\text{then, Slope of line} = \frac{7}{11}$$

68. (B)

ATQ,

$$\text{area of } \Delta XYZ = \frac{(6)^2}{(1)^2} \times 15$$

$$= \mathbf{540 \text{ cm}^2}$$

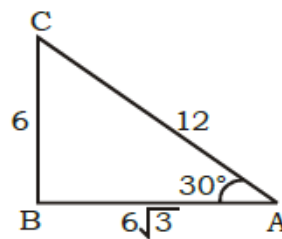
69. (A)

ATQ,

$$\text{Cot } 30^\circ - \sec 60^\circ = \sqrt{3} - 2$$

70. (C)

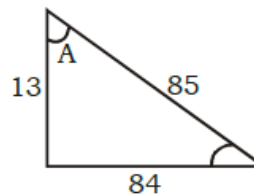
ATQ,



Hence, $AB = 6\sqrt{3} \text{ cm}$

71. (A)

ATQ,



$$\cot A = \frac{13}{84}$$

$$\Rightarrow \sec A = \frac{85}{13}$$

72. (A) **3**

73. (D)

$$\text{Required number} = 100 + 150 + 150 + 250 + 350 = \mathbf{1000}$$

74. (D)

$$\text{Required increment} = \frac{(250-150)}{150} \times 100$$

$$= 66\frac{2}{3} \%$$

75. (A)

$$\begin{aligned} \text{Total fees} &= (100 + 150 + 150) \times 10000 \\ &\quad + (250 + 35 + 300) \times 12000 \\ &= \mathbf{Rs.14800000} \end{aligned}$$

SSC PRE MOCK TEST – 16 (ANSWER)

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