SSC MOCK TEST – 02 (SOLUTION)

1. (D) Students are in college and patients are in hospital.

2. (A) As, $\underset{+12}{\underline{DHL \quad PTX}}$

    Similarly, $\underset{+12}{\underline{BFJ \quad \textbf{NRV}}}$

3. (C) As, $\underset{5^3-1}{\underline{5 \quad 124}}$

    Similarly, $\underset{7^3-1}{\underline{7 \quad \textbf{342}}}$

4. (D) Except "Come-Arrive", others are antonym to each other.

5. (C)

Letters	A	W
Position	1	23

    Odd position / Odd position

Letters	A	G
Position	1	7

    Odd position / Odd position

Letters	E	T
Position	5	20

    Odd position / Even position

Letters	I	Q
Position	9	17

    Odd position / Odd position

6. (D) 14 × 12 = 168
       42 × 4 = 168
       24 × 7 = 168
       37 × 4 = **148**

7. (B) REPAIR → RESCUE → RESEARCH → RESIDUE → RESIGN

8. (B)

    J A Z, L E X, N I V, P M T, **R Q R**

9. (C) 19, 28, 39, 52, **67,** 84
    +9 +11 +13 +15 +17
    +2 +2 +2 +2

10. (B)
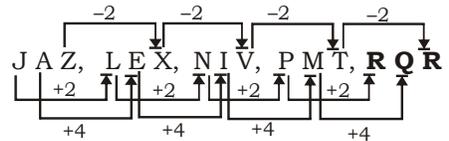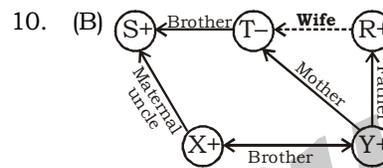
11. (A) **C** > A > B > D > E

12. (C) SOUL

13. (D) DOG ⇒ 4 + 15 + 7 = 26
    ANIMAL ⇒ 1 + 14 + 9 + 13 + 1 + 12
    = 50

14. (B) 5 > 2 × 1 – 3 > 4 <1
    ⇒ 5 × 2 + 1 = 3 × 4 – 1
    ⇒ 11 = 11

15. (A) As, 3 × 4 × 5 ⇒ 435,
           a   b   c   bac
           4 × 3 × 2 ⇒ 342
           a   b   c   bac
    Similarly, 2 × 3 × 4 ⇒ **324**
           a   b   c   **bac**

16. (B) As, 6 × 8 + 3 = 15,
        15 × 4 + 5 = 65
    Similarly, 20 × 5 + 20 = **120**

17. (A)

18. (A)
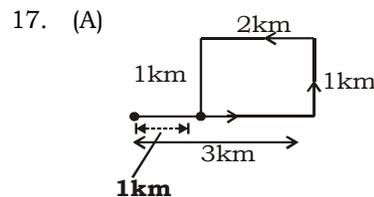
    Leaves
    Fruits
    Grapes
    I. ✓
    II. ×

    Only conclusion I follows.

19. (D) Number of triangles = 12

20. (A)
    Doctors, Nurses, Surgeons
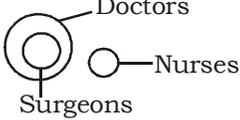
21. (B)

22. (D)

23. (C)

24. (B)
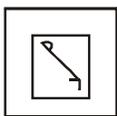
25. (D)
N	E	A	T
32	21	41	68

51. (D) Let the number is = $x - 5, x, x + 5$
    ATQ,
    $3x = 225$
    $\Rightarrow x = 75$
    $\therefore$ Largest number = 80

52. (B) $A \times 6 = B \times 8$

	A	**:**	**B**
Ratio of efficiency =	4	:	3
Ratio of time =	3	:	4
	×6↓		↓×6
	18 days		24 days

53. (B) S.P. $= 900 \times \dfrac{80}{100} \times \dfrac{90}{100} = 81 \times 8$

    $= ₹ 648$

54. (D) Ratio of expenditure to saving
    $= 61 : 6$
    ATQ,
    67 units = 8710

    6 units $= \dfrac{8710}{67} \times 6 = 780$

    $\therefore$ His saving = ₹ 780

55. (B) M.P. $= \dfrac{950}{95} \times 100 = ₹ 1000$

56. (B) ATQ,

    $x \times \dfrac{25}{100} \times \dfrac{25}{100} \times \dfrac{25}{100} = 2$

    Initial money $= \dfrac{32}{25} \times 100 = ₹ 128$

57. (A) Speed = 75 km/hr

    $= 72 \times \dfrac{5}{18} = 20 \text{m/s}$

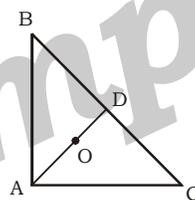   Time $= \dfrac{160}{20} = 8 \text{sec}$

58. (B) $x + \dfrac{1}{9x} = 4$

    $3x + \dfrac{1}{3x} = 12 \Rightarrow 9x^2 + \dfrac{1}{9x^2} = 144 - 2$
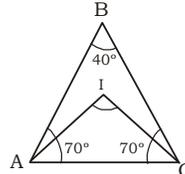
    $\Rightarrow 9x^2 + \dfrac{1}{9x^2} = 142$

59. (D) $27a^3 - 54a^2b + 36ab^2 - 8b^3 = (3a - 2b)^3$
    $= (6 + 6)^3$
    $= 12^3$
    $= 1728$

60. (B) In any triangle, the sum of two sides is always greater than the third side
    $\therefore$ Possible length of sides of triangle
    = 3cm, 4cm, 5cm

61. (A)

    AO : OD = 2 : 1
    ATQ,
    2 units = 10 cm
    1 unit = 5 cm
    $\therefore$ OD = 5 cm

62. (B) $\sin A = \cos B$
    $\Rightarrow \sin A = \sin(90° - B)$
    $\Rightarrow A = 90° - B$
    $\Rightarrow A + B = 90$
    $\because A + B + C = 180°$
    $\therefore \qquad C = 90°$
    Then, $\cos 90° = 0$

63. (C)

    $\angle AIC = 90° + \dfrac{\angle ABC}{2} = 90 + \dfrac{40°}{2} = 110°$

64. (B) Radius of circle $= \dfrac{\sqrt{144 + 25}}{2}$

    $= \dfrac{13}{2} = 6.5$ cm

65.(A) $\sin\theta\cos\theta = \dfrac{1}{2}$

$\Rightarrow 2\sin\theta\cos\theta = 1$

$\Rightarrow \sin2\theta = 1$

$\Rightarrow \sin2\theta = \sin90°$

$\Rightarrow \theta = 45°$

Now, $\sin45° - \cos45°$

$= \dfrac{1}{\sqrt{2}} - \dfrac{1}{\sqrt{2}} = 0$

66.(B) correct mean $= 40 - \dfrac{(83-53)}{100}$

$= 40 - 0.3$

$= 39.7$

67.(B) $a^3 + \dfrac{1}{a^3} = 2$

By adding '6' both sides,

$a^3 + \dfrac{1}{a^3} + 6 = 8$

$\Rightarrow \left(a + \dfrac{1}{a}\right)^3 = 8$

$\Rightarrow a + \dfrac{1}{a} = \sqrt[3]{8} = 2$

68.(D) $x\left(3 - \dfrac{2}{x}\right) = \dfrac{3}{x}$

$\Rightarrow 3x - 2 = \dfrac{3}{x}$

$\Rightarrow 3x - \dfrac{3}{x} = 2$

$\Rightarrow x - \dfrac{1}{x} = \dfrac{2}{3}$

$\Rightarrow x^2 - \dfrac{1}{x^2} = \dfrac{4}{9} + 2 = 2\dfrac{4}{9}$

69.(C) ATQ,

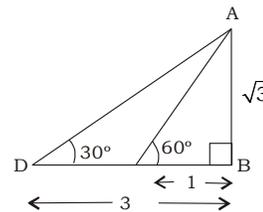$\dfrac{4}{3}\pi \times 5\times5\times5 = \dfrac{1}{3}\pi \times 5\times5\times h$

$\Rightarrow \quad h = 20$ cm

70.(C) $P = \dfrac{(C.I - S.I)\times100\times100}{R^2}$

$P = \dfrac{41\times100\times100}{5\times5}$

$P = ₹\ 16400$

71.(B)

ATQ,

(3–1) units = 36

2 units = 36

1 unit = 18m

∴ Breadth of river = 18m

72.(C) Required percentage $= \dfrac{5}{12.5} = 40$

73.(B) 17.5% = 2.45

$30\% = \dfrac{2.45}{17.5} \times 30 = 4.2$ cr.

∴ Required Amount = 4.2 cr.

74.(D) Required ratio

= (20 + 12.5): (10+17.5)

= 32.5 : 27.5

= 13 : 11

75.(C) Required ratio = 12.5 : 20

= 5 : 8

MEANING OF DIFFICULT WORDS

Word	Meaning in English	Meaning in Hindi
Agitate	to disturb, excite, or anger (someone)	उकसाना, भड़काना
Clone	an individual grown from a single somatic cell and genetically identical	जव पज प्रतिरूप
Connoisseur	an expert in a particular subject	विशेषज्ञ
Detest	to dislike (someone or something) very strongly	नफरत करना
Devastate	to bring to ruin by violent action	सर्वनाश करना
Discard	to get rid of especially as useless or unwanted	हटाना, ठुकराना
Dispose	to put (something) in a particular position or place	व्यवस्थित करना
Facsimile	an exact copy	प्रतिलिपि
Grudge	a feeling of deep-seated resentment	असन्तोष
Heal	to make (someone or something) healthy	स्वस्थ करना
Incentive	something that encourages a person to do something or to work harder	प्रोत्साहन
Mitigate	to make less severe or painful, alleviate	कम करना, घटाना
Persuade	to cause (someone) to do something by asking, arguing, or giving reasons	मनाना
Quench	to become calm	शांत करना, बुझाना (प्यास)
Soothe	to cause (someone) to be calmer, less angry, etc.	शान्त करना

SSC MOCK TEST - 02 (ANSWER KEY)

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

88. (A) Replace 'used' with 'wore'.

90. (B) Replace 'for' with 'by' to give a correct meaning to the sentence.

96. (B) To express individuality 'Each' is used. Hence replace 'Both of us' with 'Each of us'.

97. (C) 'Hell bent on something' means 'to be extremely determined to do something'.

99. (A) 'Taxi' means '(to an aircraft) move slowly along the ground.

100.(A) Apostrophe is used with the noun related to 'time/ weight/ place'

Ex: a day's leave

Arm's length

A pound's weight.

Hence replace 'hard days work' with 'hard day's work'.

Note:- If your opinion differs regarding any answer, please message the mock test and question number to 8860330003

Note:- Whatsapp with Mock Test No. and Question No. at 7053606571 for any of the doubts. Join the group and you may also share your suggestions and experience of Sunday Mock Test.

Note:- If you face any problem regarding result or marks scored, please contact 9313111777