

SSC MOCK TEST - 01 (SOLUTION)

1. (A) Donkey brays and monkey chatters.

2. (A) As, $\begin{array}{cc} \underline{ABDE} & \underline{FGIJ} \\ & \xrightarrow{+5} \end{array}$

Similarly, $\begin{array}{cc} \underline{IJLM} & \underline{NOOR} \\ & \xrightarrow{+5} \end{array}$

3. (D) $1 : 8 :: 27 : 64$
 $\begin{array}{cc} \downarrow & \downarrow \\ 1^3 & 2^3 \\ \uparrow & \uparrow \\ & +1 \end{array}$ $\begin{array}{cc} \downarrow & \downarrow \\ 3^3 & 4^3 \\ \uparrow & \uparrow \\ & +1 \end{array}$

4. (D) Except Driving, others are related to physical work.

5. (D) $\begin{array}{ccc} \begin{array}{c} \xrightarrow{-1} \\ RGT \\ \xrightarrow{+2} F \end{array} & \begin{array}{c} \xrightarrow{-1} \\ MLO \\ \xrightarrow{+2} K \end{array} & \begin{array}{c} \xrightarrow{-1} \\ CTE \\ \xrightarrow{+2} S \end{array} \end{array}$

$\begin{array}{c} \xrightarrow{-1} \\ VDZ \\ \xrightarrow{+4} C \end{array}$

6. (B) $443 \Rightarrow 4 + 4 + 3 = 11$
 $633 \Rightarrow 6 + 3 + 3 = 12$
 $821 \Rightarrow 8 + 2 + 1 = 11$
 $245 \Rightarrow 2 + 4 + 5 = 11$

7. (A) Dwell \rightarrow Dwindle \rightarrow Dye \rightarrow Dyke

8. (B) $\begin{array}{cccc} D & H & L, & P & T & X, & B & F & J, & N & R & V \\ \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ -2 & -2 & -2 & -2 & -2 & -2 & -2 & -2 & -2 & -2 & -2 & -2 \end{array}$

9. (D) $\begin{array}{ccccccc} 28, & 33, & 31, & 36, & 34, & & 39 \\ \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & & \downarrow \\ +3 & +3 & +3 & +3 & +3 & & +3 \\ & & & & & & 29 \end{array}$

10. (B) Anubha Rakhi
 x $12x$
 3 $12 \times 3 = 36$
 Age of Rakhi 2 years earlier $36 - 2 = 34$ years

11. (A) June - 5 days
 July - 31 days
 August - 15

$\Rightarrow \frac{51}{7} = \text{Remainder } 2 \text{ and Wednesday} + 2 = \text{Friday.}$

12. (D) MANIA

13. (B) As, $\begin{array}{cccccccc} B & L & A & C & K & S & M & I & T & H \\ \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ +1 & +2 & +1 & +2 & +1 & +2 & +1 & +2 & +1 & +2 \\ C & N & B & E & L & U & N & K & U & J \end{array}$

Similarly, $\begin{array}{cccccccc} C & H & I & L & D & R & E & N \\ \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ +1 & +2 & +1 & +2 & +1 & +2 & +1 & +2 \\ D & J & J & N & E & T & F & P \end{array}$

14. (D) $17 + 17 \Rightarrow 17 \times 17 = 289 | 5 \Rightarrow 2895$
 $18 + 18 \Rightarrow 18 \times 18 = 324 | 5 \Rightarrow 3245$
 $19 + 19 \Rightarrow 19 \times 19 = 361 | 5 \Rightarrow 3615$
 $23 + 23 \Rightarrow 23 \times 23 = 529 | 5 \Rightarrow 5295$

15. (C) $5 \div 3 - 25 + 20 = 20 \times 39$
 After changing the signs as per the given details,
 $\Rightarrow 5 \times 3 + 25 - 20 \div 20 = 39$
 $\Rightarrow 15 + 25 - 1 = 39$
 $\Rightarrow 40 - 1 = 39$
 $\Rightarrow 39 = 39$

16. (C) $\begin{array}{c} 3^3 \\ \swarrow \quad \searrow \\ 1^3 \quad 2^3 \end{array}$ $\begin{array}{c} 6^3 \\ \swarrow \quad \searrow \\ 4^3 \quad 5^3 \end{array}$

$\begin{array}{c} 9^3 \\ \swarrow \quad \searrow \\ 7^3 \quad 8^3 = 512 \end{array}$

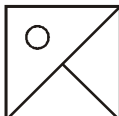
17. (C) $\begin{array}{c} 9\text{km} \\ \swarrow \quad \searrow \\ 15\text{km} \quad 12\text{km} \end{array}$

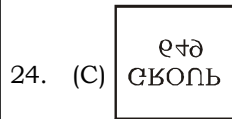
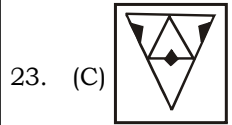
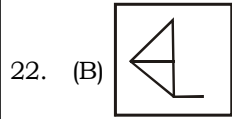
$\therefore \text{Required distance} = \sqrt{9^2 + 12^2}$
 $= \sqrt{81 + 144} = 15\text{km}$

18. (D) Neither assumption I nor II is correct.

19. (D) Number of squares = $1^2 + 2^2 + 3^2 + 4^2$
 $= 1 + 4 + 9 + 16 = 30$

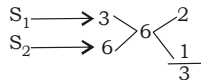
20. (C) 'c + e' represents the part of those actors who are also singers.

21. (D) 



25. (B) 59 77 85 43
N I L E

51.(B) Efficiency of father = Efficiency of two sons
∴ Time taken by father = time taken by two sons



$$\text{Time taken by father} = \frac{6}{3} = 2$$

52.(B) Side = $\frac{240}{4} = 60\text{m}$

Height = 20m

Area = $60 \times 20 = 1200\text{m}^2$

53.(D) Marked price = $\frac{450 \times 100}{100 - \frac{50}{3}}$

$$= \frac{450 \times 100 \times 3}{250} = ₹ 540$$

54.(A) $2(B+C) = 9A$

$$\Rightarrow \frac{A}{B+C} = \frac{2}{9}$$

A's Share = $\frac{A}{A+B+C} \times 770$

$$= \frac{2}{11} \times 770 = ₹ 140$$

55.(C) C.P. of 4 dozen eggs = $24 \times 4 = ₹ 96$

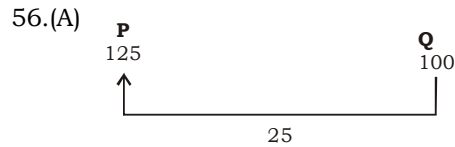
C.P. of 2 dozen eggs = $32 \times 2 = ₹ 64$

C.P. of 6 dozen eggs = ₹ 160

C.P. of one dozen egg = ₹ $\frac{160}{6}$

Profit = 20%

Selling price = $\frac{160}{6} \times \frac{120}{100} = ₹ 32$



$$\begin{aligned} \text{Required percentage} &= \frac{25}{125} \times 100 \\ &= 20\% \end{aligned}$$

57.(B) LCM of A and B = 200

Hence, After 200 sec, they will reach at starting point simultaneously.

58.(C) ∴ $x + \frac{1}{x} = -2$

∴ $x = -1$

Then,

$$x^7 + \frac{1}{x^5} = -2$$

59.(D) $P = 3 + \frac{1}{p}$

$$\Rightarrow P - \frac{1}{p} = 3$$

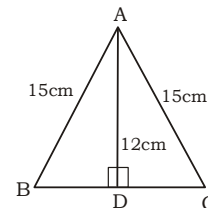
Squaring both sides,

$$P^2 + \frac{1}{p^2} - 2 = 9 \Rightarrow P^2 + \frac{1}{p^2} = 11$$

Again, squaring both sides,

$$P^4 + \frac{1}{p^4} + 2 = 121 \Rightarrow P^4 + \frac{1}{p^4} = 119$$

60.(C)



In $\triangle ABD$,

$$BD^2 = AB^2 - AD^2$$

$$\Rightarrow BD^2 = 15^2 - 12^2$$

$$= 27 \times 3$$

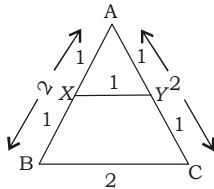
$$\Rightarrow BD = \sqrt{81} = 9\text{cm}$$

and, $BC = 2 \times BD$

$$= 2 \times 9$$

$$= 18\text{cm}$$

61.(D)



ATQ,

$$3 \text{ units} = 12$$

$$1 \text{ unit} = \frac{12}{3} = 4$$

$$\therefore BC - XY = 4$$

62.(C) Take any value of θ between 0° to 90°

Let $\theta = 45^\circ$

$$\sin 45^\circ = \frac{1}{\sqrt{2}}$$

$$\Rightarrow \sin^2 45^\circ = \frac{1}{2}$$

$$\operatorname{cosec} 45^\circ = \sqrt{2}$$

Hence, $\sin \theta > \sin^2 \theta$

63.(B) $x - y = 9$ (i)

$$\Rightarrow x^2 - y^2 = 207$$

$$\Rightarrow (x + y)(x - y) = 207$$

$$\Rightarrow x + y = \frac{207}{9} = 23 \text{(ii)}$$

By solving (i) & (ii),

$$a = 16 \text{ \& } b = 7$$

64.(C) Correct Average = $35 + \frac{85 - 45}{20}$

$$= 35 + 2$$

$$= 37$$

65.(C) $x^4 + x^2y^2 + y^4 = 6$

$$\Rightarrow (x^2 + y^2)^2 - x^2y^2 = 6$$

$$\Rightarrow (x^2 + y^2 + xy)(x^2 + y^2 - xy) = 6$$

$$\Rightarrow x^2 + y^2 + xy = \frac{6}{2}$$

$$\Rightarrow x^2 + y^2 + xy = 3$$

66.(C) $a^2 + 4b^2 + c^2 - 4ab + 9b^2 + c^2 - 6bc = 0$

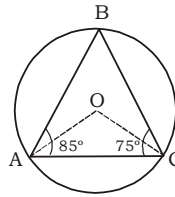
$$\Rightarrow (a - 2b)^2 + (3b - c)^2 = 0$$

$$a = 2b \text{ \& } 3b = c$$

$$\frac{a}{b} = \frac{2}{1} \text{ \& } \frac{b}{c} = \frac{1}{3}$$

$$a : b : c = 2 : 1 : 3$$

67.(A)



$$\angle B = 180^\circ - (85^\circ + 75^\circ) = 20^\circ$$

$$\angle AOC = 2 \angle B = 2 \times 20^\circ = 40^\circ$$

In $\triangle AOC$,

$$OA = OC$$

$$\therefore \angle OAC = \angle OCA$$

$$\angle OAC + \angle OCA + \angle AOC = 180^\circ$$

$$2 \angle OAC = 180^\circ - 40^\circ$$

$$\angle OAC = \frac{140^\circ}{2} = 70^\circ$$

68.(C) Inradius of equilateral $\Delta = \frac{a}{2\sqrt{3}}$

$$\therefore x = \frac{2\sqrt{3}}{2\sqrt{3}} = 1 \text{ cm}$$

69.(C) $\tan 3\theta \cdot \tan 7\theta = 1$

$$\Rightarrow \tan 7\theta = \frac{1}{\tan 3\theta}$$

$$\Rightarrow \tan 7\theta = \cot 3\theta$$

$$\Rightarrow \tan 7\theta = \tan(90^\circ - 3\theta)$$

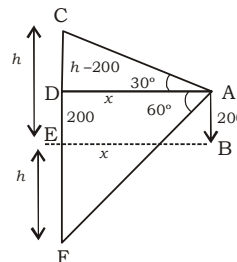
$$\Rightarrow 7\theta = 90^\circ - 3\theta$$

$$\Rightarrow 10\theta = 90^\circ$$

$$\Rightarrow \theta = 9^\circ$$

$$\therefore \tan(\theta + 36^\circ) = \tan 45^\circ = 1$$

70.(D)



In $\triangle ACD$,

$$x = \sqrt{3}(h - 200) \text{(i)}$$

In $\triangle ADF$,

$$x = \frac{h + 200}{\sqrt{3}} \text{(ii)}$$

From (i) & (ii),

$$\Rightarrow \sqrt{3}(h - 200) = \frac{h + 200}{\sqrt{3}}$$

$$\Rightarrow 3h - 600 = h + 200$$

$$\Rightarrow 2h = 800$$

$$\Rightarrow h = 400 \text{ m}$$

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$$71.(B) \quad C.I - S.I = \frac{p \times r \times r \times (300 + r)}{100 \times 100 \times 100}$$
$$= \frac{40000 \times 8 \times 8 \times 308}{100 \times 100 \times 100} = ₹ 788.48$$

$$72.(C) \quad \text{Required percentage} = \frac{871}{2085} \times 100$$
$$= 41.75$$

73.(A) Average of special children

$$= \frac{2085}{5} = 417$$

74.(D) articulatory disorder : speech disorder

$$= 60 : 275$$

$$= 12 : 55$$

75.(A) Language disorder : average of remaining disorder = 657 : 357

$$219 : 119$$

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MEANING OF DIFFICULT WORDS

Word	Meaning in English	Meaning in Hindi
Autobiography	the biography of a person narrated by himself or herself	आत्मकथा
Bibliography	a list of books referred to in a scholarly work	ग्रंथ-सूची
Biography	a usually written history of a person's life	जीवनी
Carcass	the dead body of an animal	किसी जानवर का मृत शरीर
Comrade	an intimate friend or associate	मित्र, संगी
Contemporary	happening, existing, or living during the same period of time	समकालिन
Eavesdrop	to listen secretly to what is said in private	छिप कर बात सुनना
Encroach	to enter stealthily into the possessions or rights of another	अतिक्रमण करना
Enigma	something hard to understand or explain	पहेली, गूढ़ प्रश्न
Flare-up	a sudden bursting (as of a smouldering fire) into	अचानक आग भड़कना
Flare-up	a sudden occurrence or expression of anger	अचानक क्रोधित होना
Inert	very slow to move or act	सुस्त
Inertia	a tendency to do nothing or remain unchanged	आलस्य, निष्क्रियता
Interrupt	to stop or hinder by breaking in	हस्तक्षेप करना, दखल देना
Languor	weakness or weariness of body or mind	सुस्ती, शिथिलता
Pious	showing reverence for deity and devotion to divine worship	धर्मनिष्ठ, भक्त
Plead	to argue a case in a court of law, to request	तर्क के रूप में प्रस्तुत करना, याचना करना
Renegade	a deserter from one faith, cause, or allegiance to another	स्वधर्मत्यागी
Riddle	something that is hard to understand	पहेली, रहस्य
Stupor	a condition in which someone is not able to think normally because of being drunk, drugged or tired	अचेतना, मूर्छा
Vigour	strength, energy, or determination	जोश, ताकत, शक्ति

SSC MOCK TEST - 01 (ANSWER KEY)

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

79. (C) If adjective of size, colour, age, etc. come together in a sentence, they should be used in the following order:

Opinion 1 Size 2 Age 3 Shape 4 Colour 5

Origin 6 Material 7 Purpose 8 + Noun

Hence adjective of opinion (beautiful) should come before the adjective of colour (red). Thus replace 'a red beautiful balloon' with 'a beautiful red balloon'.

80. (C) If a word has negative meaning, we do not use 'not' with that word.

Words that do not take not with them are: unless, until, deny, prohibit, lest, hardly, barely, rarely and scarcely. Hence replace 'does not have' with 'has'.

81. (C) Replace 'charged straight after me' with 'charged straight at me'. 'Charge at someone' means 'to rush forward to attack'

82. (D) 'Assure' someone means 'to tell someone something positively to dispel any doubt'. (दिलासा देना)

83. (A) 'Insist' takes preposition 'on' with it.

84. (C) After 'do/ does', first form (plural form) of verb is used. Hence only option (C) is correct.

91. (B) The preposition 'by' is used in many different ways. Sometimes 'by' is used for 'point of time' as a preposition of time. When 'by' is used for time, the meaning is 'not later than'.

Ex: I expect to finish my work by Friday. (Not later than Friday).

92. (A) According to the meaning of the sentence it should be 'whole'.

93. (A) If a noun is followed by an infinitive, an appropriate preposition must follow the infinitive. Add 'with' after 'to write'.

94. (A) Thumb rules for making question tag:

- (i) The sentence and Question Tag must be in the same Tense.
- (ii) If the Question Tag is positive, the Question Tag must be negative.
- (iii) Always use pronoun in Question Tag. Hence according to the rule 'doesn't he' should come.

For more details: Refer to Chapter Question Tag of **Volume-1**

95. (C) The verb used after the relative pronoun depends upon the antecedent used before the relative pronoun. Here the antecedent (those) is plural. Hence the verb must also be plural. Thus replace 'likes' with 'like'.

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