

SSC MOCK TEST - 112 (SOLUTION)

1. (B) As, Medicine is necessary for Patient. Similarly, Education is necessary for Students.

2. (B) As, LAMP IXJM
Similarly, FISH CFPE

3. (C) As, 14 x 2 - 6 = 22. Similarly, 17 x 2 - 6 = 28

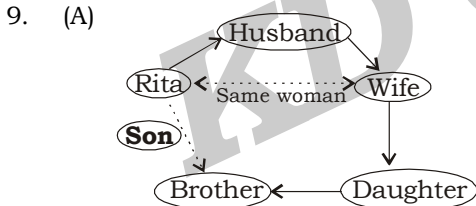
4. (C) Except Accessory, all others are Synonyms.

5. (D) Except BLYZ, all others have vowels.

6. (C) 47 - 59 = -12, 57 - 69 = -12, 71 - 84 = -13, 91 - 103 = -12

7. (C) Ambiguity -> Ambiguous -> Ambitions -> Animal -> Animation.

8. (B) ATQ, x = 4y, then, x + 10 = 2(y+10), 4y + 10 = 2y + 20, y = 5, Hence, Required age = 5 years



10. (C) CANCEL

11. (D) 5, 11, 24, 51, 106 with arrows and multipliers x2+1, x2+2, x2+3, x2+4

12. (C) CBT, DCU, EDV, FEW with arrows and +1

13. (D) 4, 8, 16, 32 with arrows and x2

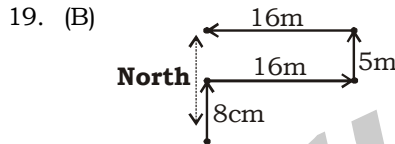
14. (D) As, P D A S H, 16 = 16, 4, 1, 19, 8 = 32. Similarly, E A N C D, 5, 1, 14, 3, 4 = 27

15. (B) 4 x 9 + 4 = 40, 3 x 6 + 3 = 21, 4 x 5 + 8 = 28

16. (B) 3 x 6 = 18, 9 x 3 = 27, 18 x 17 = 306

17. (D) (15 - 7) x 2 = 16, (9 - 5) x 2 = 8, (28 - 10) x 2 = 36

18. (C) 5^2 + 4^2 = 41, 8^2 + 3^2 = 73, 4^2 + 11^2 = 137



20. (C), 21. (B)

22. (A) As, AFAIN ZTZRM, Similarly, WHICH DSRXS

23. (A) AB.....KLM.....YZ with arrows and 11, 12th, 15th, 14

24. (A), 25. (A)

26. (B) Tide clocks are popular clocks used by surfers, sailors, and anyone else who is concerned with the tidal cycle.

28. (A) Article 3 of the Indian Constitution deals with formation of new States of the Indian Union...

29. (B) In the S.R. Bommai Case in Union of India(1994). Justice Sawant and Kuldip Singh observed that Federalism and secularism was an essential feature of

- our Constitution and were a part of basic structure. In this case, the Supreme Court discussed at length provisions of Article 356 of the Constitution of India.
31. (A) Rank Country Uranium Reserves
- |    |             |           |
|----|-------------|-----------|
| 1. | Australia   | 1,706,100 |
| 2. | Kazakhstan  | 679,300   |
| 3. | Russian Fed | 505,900   |
| 4. | Canada      | 493,900   |
32. (D) When heated from 0° to 10° C volume of a given mass of water will first decrease and then increase. If the word “ice” or “solid” is not mentioned, the word “water” means liquid water. Water vapor can be produced from the evaporation or boiling of liquid water. So the volume first decreases and then increases again when water droplets form the vapours due to stoppage of heat.
34. (C) Sound is sequence of waves of pressure that propagates through compressible media such as air or water. Sound that is perceptible by humans has frequencies from about 20 Hz to 20,000 Hz. In air at standard temperature and pressure, the corresponding wavelengths of sound waves can be reflected, refracted, or attenuated by the medium. Now if we consider these cases, then the train arriving has whistles of higher pitch because it propagates through a medium which is coming towards us but the train which is leaving propagating through a medium moving further away from the listener and thus produces whistle of lower pitch.
36. (D) After publishing a series of books and articles arguing that Buddhism was the only way for the untouchables to gain equality, Ambedkar publicly converted on October 14, 1956. After receiving ordination Ambedkar gave dhamma diksha to his followers. On 16<sup>th</sup> October, 1956, Ambedkar performed another mass religious conversion ceremony at Chanda.
37. (A) Chandragiri Fort is a historical fort, built in the 11th century located in Chandragiri, Tirupati in Andhra Pradesh, India. Chandragiri was under the rule of Yadava Naidus for about three centuries and came into control of Vijayanagar rulers in 1367.
39. (C) Penicillin is produced from the genus of fungi “Penicillin”. All penicillin are alactam antibiotics and are used in the treatment of bacterial infections caused by susceptible, usually gram-positive, organisms.
40. (D) The Modi script was used to write the Marathi language spoken in the Indian state of Maharashtra. It originated as a cursive variant of the script during the 17th century CE. Modi was used until the 1950’s when Devanagari replaced it as the written medium of the Marathi language.
42. (D) Prime Minister Narendra Modi has recently launched an Aadhaar-based mobile app “Bharat Interface for Money (BHIM)” to promote easier digital payments and transactions at Digi Dhan Mela at talkatora stadium in New Delhi. The Bhim app is named after Dr B R Ambedkar and will empower small traders, tribals and farmers. The app is inter-operable with Unified Payments Interface (UPI) and it connects directly to your bank account.
43. (A) India has been ranked 60<sup>th</sup> out of 130 nations on the Global Innovation Index (GII) 2017. The 2017 index highlighted the continual improvement of India in terms of investment, tertiary education, quality of its publications and universities, its ICT services exports and innovation clusters. The list is topped by Switzerland, followed by Sweden and the Netherlands. The theme of the 2017 Index is "Innovation Feeding the World" that focuses on innovation in agriculture and food systems.
44. (D) Upanayana is one of the traditional Samskaras (rites of passage) that marked the acceptance of a student by a guru (teacher) and an individual’s entrance to a school in Hinduism. The tradition is widely discussed in ancient Sanskrit texts of India and varies regionally.
46. (C) A cricketer lowers his hands while taking a catch to decrease the rate of momentum. Cricketers increase the time by pulling their hand’s backward with ball while taking a catch. Linear momentum or translational momentum is the product of the mass and velocity of an object.

47. (D) The hepatic portal vein is a blood vessel that carries blood from the gastrointestinal tract and spleen to the liver. This blood is rich in nutrients that have been extracted from food.

48. (B) The Directive Principles of State Policy, enshrined in Part IV of the Indian Constitution reflects that India is a welfare state. Seats are reserved for scheduled castes and scheduled tribes in government jobs, educational institutions, Lok Sabha and Vidhan Sabha.

49. (D) Structural unemployment is a form of unemployment resulting from a mismatch between demand in the labour market and the skills and locations of the workers seeking employment. Structural unemployment is result of the dynamics of the labour market, such as agricultural workers being displaced by mechanized agriculture, unskilled labourers displaced by both mechanization and automation, or industries with declining employment.

50. (D) The Purna Swaraj Declaration, of the Independence of India was promulgated by the Indian National Congress. A very large number of Congress volunteers and delegates, members of other political parties and an especially large public gathering attended the session Convened in Lahore.

51. (B) ATQ,

$$\begin{array}{r} 9 \overline{) 9886799} \\ \underline{189} \phantom{00} \\ \times 9 \phantom{00} \\ \underline{1786} \phantom{00} \\ \phantom{00} \underline{1701} \\ \phantom{0000} 85 \end{array}$$

Hence, Required number = **85**

52. (B) ATQ,

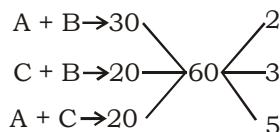
$$\text{Required Quantity} = \frac{112}{8} \times (31 + 28) = \mathbf{826 \text{ kgs}}$$

53. (C) ATQ,

This is a triplet of right angle triangle i.e.  $60^2 + 11^2 = 61^2$

$$\text{Hence, Required Area} = 2 \times \frac{1}{2} \times 60 \times 11 = \mathbf{660 \text{ cm}^2}$$

54. (D) ATQ,



$$\text{Hence, Required days} = \frac{60 \times 2}{8} = \mathbf{15 \text{ days}}$$

55. (A) ATQ,

$$\frac{P \times r \times 10}{100} = 3P$$

$$\Rightarrow r = \mathbf{30\%}$$

56. (B) ATQ,

| C.P | S.P | M.P             |
|-----|-----|-----------------|
| 100 | 115 | $\frac{575}{4}$ |

$$\text{Hence, Required ratio} = \frac{575}{4} : 100 = \mathbf{23 : 16}$$

57. (A) ATQ,

Let the initial price =  $8x$

$$\text{then, } \frac{180}{9x} - \frac{180}{8x} = 5$$

$$\frac{180 \times 1}{72x} = 5$$

$$\Rightarrow x = 0.5$$

Hence, Required price =  $0.5 \times 8 = \mathbf{₹4}$

58. (C) ATQ,

$$\frac{x \times 27 + 17 \times 12}{x + 12} = 27 - 4 = 23$$

$$\Rightarrow 27x = 12 \times 06 + 23x$$

$$\Rightarrow x = 18$$

Hence, Required Student = **18**

59. (C) ATQ,

$$x^2 + y^2 = xy$$

$$\Rightarrow x^2 + y^2 - xy = 0$$

$$\text{then, } x^3 + y^3 = (x + y)(x^2 + y^2 - xy) = \mathbf{0}$$

60. (B) ATQ

$$\frac{x}{a+b} - \frac{x}{a-b} = \frac{a-b}{a+b} - 1$$

$$\Rightarrow x \left( \frac{a-b-a-b}{a^2-b^2} \right) = \frac{(a-b-a-b)}{a+b}$$

$$\Rightarrow x = \mathbf{a - b}$$

61. (C) ATQ,

$$\text{Required number} = \frac{77 \times 3}{(8+3)} \times 3 = \mathbf{63}$$

62. (C) ATQ,

$$8x + 5x = 6x + 35$$

$$\Rightarrow 7x = 35$$

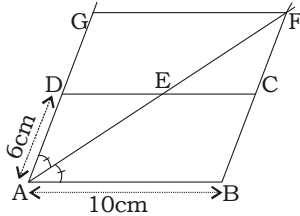
$$\Rightarrow x = 5$$

Hence, the smallest number =  $5 \times 5 = \mathbf{25}$

63. (B) ATQ,  
number of cows =  $x$   
then,  $4x + (50 - x) \times 2 = 158$   
 $\Rightarrow 4x + 100 - 2x = 158$   
 $\Rightarrow x = 29$

Hence, Required number = **29**

64. (A) ATQ,



Produce AD to G such that  $AG \parallel BF$  and  $GF \parallel CD$

then, In  $\triangle AGF$  and  $\triangle ABF$   
AF is common side and  
 $\angle GAF = \angle BAF$

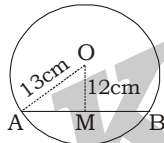
then,  $\triangle AGF \cong \triangle ABF$   
now,  $AG = AB$

$$\Rightarrow AG = CD + DG = 10$$

$$\Rightarrow DG = CF = 10 - 6 = 4 \quad [\because AG = BF]$$

Hence, CF = **4 cm**

65. (B) ATQ,



$OM \perp AB$

$$\text{Then, } AM^2 = OA^2 - OM^2$$

$$\Rightarrow AM^2 = 13^2 - 12^2 = 5^2$$

$$\Rightarrow AM = 5$$

Hence,  $AB = 2AM = 5 \times 2 = \mathbf{10cm}$

66. (B) ATQ,

$$\begin{aligned} & \sec^2 50^\circ + \operatorname{cosec}^2 56^\circ - \cot^2 40^\circ - \tan^2 34^\circ \\ &= \sec^2 50^\circ + \operatorname{cosec}^2 56^\circ - \tan^2 50^\circ - \cot^2 56^\circ \\ &= \sec^2 50^\circ - \tan^2 50^\circ + \operatorname{cosec}^2 56^\circ - \cot^2 56^\circ \\ &= 1 + 1 = \mathbf{2} \end{aligned}$$

67. (D) ATQ,

$$\tan 90^\circ = \infty$$

$$\text{Then, } \tan 1^\circ \times \tan 2^\circ \times \dots \times \tan 89^\circ \times \tan 90^\circ = \infty$$

68. (B) ATQ,

$$\frac{n \times (n - 3)}{2} = 90$$

$$\Rightarrow n^2 - 3n - 180 = 0$$

$$\Rightarrow (n + 12)(n - 15) = 0$$

$$\Rightarrow n = -12 \quad \text{or}$$

$$n = 15$$

Number of sides cannot be -ve,

So Required number = **15**

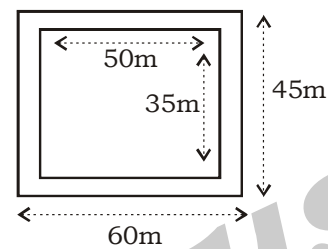
69. (D) ATQ,

$$\frac{1}{3} \pi \times 24 \times 6 \times 6 = \frac{4}{3} \pi \times r^3$$

$$\Rightarrow r = 6$$

Hence, the radius of sphere = **6cm**

70. (B) ATQ,



|                               |                  |
|-------------------------------|------------------|
| Area of path                  | : Area of lawn   |
| $60 \times 45 - 50 \times 35$ | : $50 \times 35$ |
| $2700 - 1750$                 | : 1750           |
| 950                           | : 1750           |
| <b>19</b>                     | : <b>35</b>      |

71. (A) ATQ,

$$a = 3 + 2\sqrt{2} = 2 + 1 + 2 \times 1 \times \sqrt{2}$$

$$a = (\sqrt{2} + 1)^2$$

Square root both sides,

$$\sqrt{a} = \sqrt{2} + 1 \text{-----}$$

$$\sqrt{a} - \frac{\sqrt{a}}{1} = \sqrt{2} + 1 - \frac{1}{\sqrt{2} + 1} = \sqrt{2} + 1 - \sqrt{2} + 1 = \mathbf{2}$$

72. (D) ATQ,

Maximum Profit = **₹4500**

73. (B) ATQ,

Total loss =  $1500 + 1000 = \mathbf{₹2500}$

74. (C) ATQ,

Max. Profit : Min. Loss

$$4500 \quad : \quad 1000$$

$$9 \quad : \quad 2$$

Hence, Required ratio = **9 : 2**

75. (C) ATQ,

$$x = \frac{2500}{12500} \times 100 = 20$$

$$\Rightarrow x = 20$$

Hence, Required value = **20**

**MEANINGS IN ALPHABETICAL ORDER**

| <b>Word</b>         | <b>Meaning in English</b>  | <b>Meaning in Hindi</b>          |
|---------------------|--|----------------------------------|
| <b>Affidavit</b>    | A written statement signed by a person who swears that the information is true | शपथ-पत्र                         |
| <b>Anarchist</b>    | A person who rebels  | अराजकतावादी                      |
| <b>Drollery</b>     | The act or instance of jesting or making fun                                   | परिहास                           |
| <b>Drudgery</b>     | Hard menial or dull work   | नीरस काम                         |
| <b>Flak</b>         | Strong criticism   | घोर निंदा                        |
| <b>Frolic</b>       | Play or move about in a cheerful and lively way                                | मस्ती                            |
| <b>Heckling</b>     | Interrupt with decisive question   | बीच बीच में प्रश्नों से तंग करना |
| <b>Malevolent</b>   | Having or showing a desire to cause harm to another                            | दुष्ट, अहितकारी                  |
| <b>Mutineer</b>     | A person or soldier, who rebels or refuses to obey the orders                  | विद्रोही                         |
| <b>Plausible</b>    | Possibly true  | सच्चा                            |
| <b>Plethora</b>     | Excess, superfluity, profusion, abundance                                      | बहुत अधिक                        |
| <b>Preposterous</b> | Contrary to reason or common sense absurd                                      | बेतुका                           |
| <b>Radical</b>      | very basic   | मुलभूत                           |
| <b>Repercussion</b> | An action or effect given or extended in return                                | प्रतिक्रिया                      |
| <b>Romp</b>         | (especially of a child or animal) play roughly and energetically               | कोलाहल करते हुए खेलना<br>व्यक्ति |
| <b>Sagacity</b>     | Keen in sense perception, discerning   | बुद्धिमता                        |
| <b>Sinister</b>     | Giving the impression that something harmful or evil is happening              | अशुभ                             |
| <b>Slander</b>      | Make false and damaging statement about someone (defame)                       | अलोचना करना                      |

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

**SSC MOCK TEST - 112 (ANSWER KEY)**

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

76. (C) 'Compelled' takes fix preposition 'to' with it. Also the sentence is in Passive Voice.  
82. (C) Replace preposition 'for' with 'of'.  
93. (A) 'Rectify' means 'to correct'. Poor grades are rectified.

**Correction Mock- 111**

8. Option C is correct.

**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**