

SSC MOCK TEST - 120 (SOLUTION)

1. (B) Ship travels on Water. Similarly, **Car** travels on Road.

2. (B) G L O W F J N U

Similarly, P T E L O R D J

3. (B) $5^3 - 1 = 624$

Similarly, $6^3 - 1 = 1295$

4. (B) Except **Careless : Casual**, in all others terms, 1st term is opposite of the second term.

5. (D) F U G T K P L O
 $5+21=27$ $7+20=27$ $11+16=27$ $12+15=27$
 D W E V C W D X
 $4+23=27$ $5+22=27$ $3+23=26$ $4+24=28$

6. (D) $11^3 - 1 = 1330$

$17^3 - 1 = 4912$

$21^3 - 1 = 9260$

$12^3 + 1 = 1729$

7. (B) Pastel → Pebble → Postal → Pragmatic → Protect.

8. (B) A ←
 C ←
 L ←
B ←
 D ←
 F ←

9. (C) ATQ,

$y + 9 = x$

⇒ $x + 3 + y - 4 = 76$

⇒ $y + 9 + 3 + y - 4 = 76$

⇒ $y = 34$

Hence, C's age = $\frac{34}{2} + 10 = 27$ years

10. (C) **BANE**

11. (B) Q P O N M

12. (A) E L P H N S K P V N R Y

13. (C) 2 3 5 9 17 33

14. (A) N I G H T O D D G M

D A R K G O Y C

Similarly, G R E E N I A B P F

15. (A) $4 \times 3 - 6 \div 2 + 7 = 8$

Changing the sign, as per given details,

Option A $4 \times 3 + 6 \div 2 - 7 = 8$

Option B $4 - 3 + 6 \div 2 - 7 \neq 8$

Option C $4 + 3 - 6 \div 2 \times 7 \neq 8$

Option D $4 \div 3 - 6 \times 2 + 7 \neq 8$

16. (B) Take the symbol as # = ÷ and % = ×

then, $\frac{3}{4} \times 3 = 6$

$9 \times \frac{4}{3} = 12$

$12 \times \frac{6}{24} = 3$

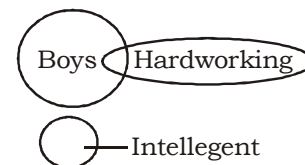
17. (B) $9 \times 2 \times 8 - 1 = 143$

$7 \times 5 \times 8 - 1 = 279$

$9 \times 7 \times 8 - 1 = 503$

18. (A)

19. (D)



I True

II False

20. (C)

21. (A)

22. (A)

23. (A)

24. (A)

25. (B)

26. (D) The Elephanta Caves, taluka Uran, district Raigad is located on island hills about 11 km north-east of the Apollo Bandar, Mumbai and 7 km from the shore of the mainland, approximately covering an area of 7 km in circumference. The island is named after a colossal elephant found in the island, which is popularly known as 'Gharapuri'. At present, the statue of elephant is housed at Jijamata Garden in Mumbai.
27. (A) A tide, in which the difference between high and low tide is the greatest. Spring tides occur when the Moon is either new or full, and the Sun, the Moon, and the Earth are aligned.
28. (A) Ram Madhvani directional **Neerja** movie has won top honors at 18th edition of International India Film Academy awards. Neerja movie that is based on the real life incident in which the air hostess Neerja Bhanot lost her life while saving others on a hijacked flight at Karachi.
29. (C) Degrees of latitude are parallel so the distance between each degree remains almost constant but since degrees of longitude are farthest apart at the equator and converge at the poles, their distance varies greatly. Each degree of latitude is approximately 69 miles (111 kilometers) apart.
30. (C) **Gupta Dynasty ruled** area was Bihar, Uttar Pradesh. The ruled period was 320 - 550 A.D. The most prominent rulers of Gupta Dynasty were Chandragupta and Samudragupta.
32. (A) **Aryabhata**, the first satellite built by India, was launched on this day April 19, in the year 1975. Aryabhata was built by the Indian Space Research Organization (ISRO) to conduct experiments in X-ray astronomy, aeronomics, and solar physics. The spacecraft was a 26-sided polygon with a diameter of 1.4 metre.
33. (A) If an object is at rest and is in a state of equilibrium, then we would say that the object is at "static equilibrium."
34. (A) **Fat Man and Little Boy**, are the nicknames given to the first and only two Atomic bombs ever used in combat. Little boy was dropped on Hiroshima, Japan on August 6, 1945. Fat Man was detonated three days later over the city of Nagasaki. These two weapons were pivotal in saving the lives of thousands of Americans, and bringing the Second World War to a victorious end.
35. (D) **Kirchhoff's First Law:** At any junction in a circuit, the sum of the currents arriving at the junction = the sum of the currents leaving the junction.
Kirchhoff's Second Law : In any loop (path) around a circuit, the sum of the emfs = the sum of the pds.
37. (B) The **Montreal Protocol** on Substances that Deplete the Ozone Layer was designed to reduce the production and consumption of ozone depleting substances in order to reduce their abundance in the atmosphere, and thereby protect the earth's fragile ozone Layer. The Montreal Protocol is signed by 197 countries – the first treaty in the history of the United Nations to achieve universal ratification – and is considered by many the most successful environmental global action.
38. (D) The **Mohs scale** of mineral hardness is a qualitative ordinal scale characterizing scratch resistance of various minerals through the ability of harder material to scratch softer material. Friedrich Mohs, a German mineralogist, developed the scale in 1812. He selected ten minerals of distinctly different hardness that ranged from a very soft mineral (talc) to a very hard mineral (diamond) on the scale.
39. (D) Throughout India, Tipu was famously known as the **Tiger of Mysore**. All his clothing carried the stripes of tiger and the throne upholstery and the cushions in the chamber of his court were all designed with the stripes of tiger. He used a special throne of eight corners that were surmounted by eight tiger heads. A massive head of a tiger was projecting in front. The throne was designed as though set across a tiger's back.
40. (D) The Maratha Empire or the Maratha Confederacy was an Indian power that dominated much of the Indian

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- subcontinent in the 18th century. The empire formally existed from 1674 with the coronation of Chhatrapati Shivaji and ended in 1818 with the defeat of Peshwa Bajirao II. The Marathas were responsible to a large extent for ending Mughal rule in India.
41. (D) If the President is satisfied that a grave emergency exists whereby the security of India or of any part of the territory there of is threatened, whether by war or external aggression or armed rebellion, he may, by Proclamation, made a declaration to that effect in respect of the whole of India or of such part of the territory there of as may be specified in the Proclamation.
43. (A) The Nikkei 225 is a stock market index for the Tokyo Stock Exchange (TSX). It has been calculated daily by the Nihon Keizai Shimbun (Nikkei) newspaper since 1950.
45. (C) Xerophyte, any plant adapted to life in a dry or physiologically dry habitat (salt marsh, saline soil, or acid bog) by means of mechanisms to prevent water loss or to store available water. Succulents (plants that store water) such as **cacti and agaves** have thick, fleshy stems or leaves. Other xerophytic adaptations include waxy leaf coatings, the ability to drop leaves during dry periods, the ability to reposition or fold leaves to reduce sunlight absorption, and the development of a dense, hairy leaf covering.
46. (A) **Environment Protection Act**, 1986 is an Act of the Parliament of India. In the wake of the Bhopal Tragedy, the Government of India enacted the Environment Protection Act of 1986 under Article 253 of the Constitution. Passed in March 1986, it came into force on 19 November 1986.
47. (B) Inflation is a condition, when cost of services coupled with goods rise and the entire economy seems to go haywire. Inflation has never done well to the economy. Inflation and economic growth are parallel lines and can never meet.
- Inflation reduces the value of money and makes it difficult for the common people.
48. (B) It has been customary for **RBI** to announce a set of measures of both short-term and structural nature in the two bi-annual statements on monetary and credit policy normally released in April and October of each year.
50. (A) The Union Ministry of Power has launched **URJA MITRA** app for empowering citizens by real time information sharing on power supply.
51. (D) ATQ,
Required Number

$$= \frac{950}{(\text{LCM of } 9,6)} - \frac{600}{(\text{LCM of } 9,6)}$$
 (Complete Number is required)

$$= 17 - 11 = 6$$
52. (B) ATQ,

Aman	→ 11	} 2145	←	195
Nitin	→ 15			143
Anu	→ 13			165

 then, Aun's share

$$= \frac{8048}{195 + 143 + 165} \times 165 = \text{₹}2640$$
53. (C) ATQ,
 Surface area of sphere = $4 \times \frac{22}{7} \times \frac{49}{4} \times \frac{49}{4}$

$$= 1886.5 \text{ cm}^2$$
54. (D) ATQ,
 Marked Price = $\frac{44550 \times 100 \times 100}{(100 - 45)(100 - 10)}$

$$= \text{₹}90000$$
55. (A) ATQ,
 Required difference = $\frac{51300 \times (7 - 6)}{(6 + 7 + 6)}$

$$= \text{₹}2700$$
56. (C) ATQ,
 Required average = $\frac{24 \times 4 - 6 \times 4}{3}$

$$= 24 \text{ years}$$
57. (D) ATQ,

$$\frac{100}{4x} - \frac{100}{5x} = 5$$

$$\Rightarrow 100 \times \frac{1}{20x} = 5$$

$$\Rightarrow x = 1$$

 Hence, new price = $1 \times 5 = \text{₹}5$

58. (D) ATQ,
Initial number

$$= 2646 \times \frac{100}{(100-60)} \times \frac{100}{(100-16)} = \mathbf{7875}$$

59. (D) ATQ,

$$\frac{140}{14x} = \frac{140}{10x} + \frac{25}{60}$$

$$\Rightarrow \frac{4}{x} = \frac{25}{60}$$

$$\Rightarrow \frac{240}{25} = x$$

Hence, the speed of train = $\frac{240}{25} \times 14$
= 134.4 kmph

60. (C) ATQ,

$$\frac{P \times r \times 20}{100} = 4P$$

$$\Rightarrow r = 20\%$$

then, $\frac{P \times 20 \times t}{100} = 8P$

$$\Rightarrow t = \mathbf{40 \text{ years}}$$

61. (B) ATQ,

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

$$\Rightarrow x^2 + 1 - 2x = 0$$

$$\Rightarrow (x-1)(x-1) = 0$$

$$\Rightarrow x = 1$$

then, $x^{68} + \frac{1}{x^{1331}} = 1^{68} + \frac{1}{1^{1331}} = \mathbf{2}$

62. (B) $\cos 15^\circ + \tan 45^\circ = \cos (45^\circ - 30^\circ) + \tan 45^\circ$
 $= \cos 45^\circ \cos 30^\circ + \sin 45^\circ \sin 30^\circ + \tan 45^\circ$

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

$$= \frac{\sqrt{3} + 1 + 2\sqrt{2}}{2\sqrt{2}}$$

63. (D) ATQ,

$$\frac{\cos 2A}{\tan 2A} = \frac{\cos^2 2A}{\sin 2A} = \frac{1 - \sin^2 2A}{\sin 2A}$$

$$= \mathbf{\operatorname{cosec} 2A - \sin 2A}$$

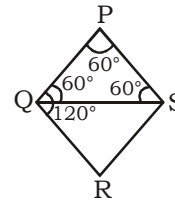
64. (A) ATQ,

$$\angle CEB = 180^\circ - \frac{45^\circ}{2} - \left[75^\circ + \frac{180^\circ - 75^\circ}{2} \right]$$

$$= \mathbf{30^\circ}$$

65. (B)

66. (B) ATQ,



Hence, PQS is an equilateral triangle
then, QS = **18 cm**

67. (C) ATQ,

$$x + \frac{5x}{6} + \frac{5x}{6} = 48$$

$$\Rightarrow x = 18$$

Hence, the area of triangle

$$= \sqrt{24(24-18)(24-15)(24-15)}$$

$$= \sqrt{24 \times 6 \times 9 \times 9} = \mathbf{108 \text{ cm}^2}$$

68. (A) ATQ,

$$a + b + c = 17$$

$$\Rightarrow (a-5) + (b-9) + (c-3) = 0 \text{ -----(i)}$$

then, $(a-5)^3 + (b-9)^3 + (c-3)^3 - 3(a-5)(b-9)(c-3) = 0$

[From equation (i)]

69. (A) ATQ,

unit's place of $3^{555} = 3^{552} \times 27$
 $= 1 \times 27 = 7$

unit's place of $8^{555} = 8^{555} \times 512$
 $= 6 \times 2 = 2$

unit's place of $8^{333} = 8^{332} \times 8 = 8$

unit's place of $5^{333} = 5$

then, unit's place of $3^{555} \times 8^{555} + 8^{333} \times 5^{555}$
 $= 7 \times 2 + 8 \times 5 = \mathbf{4}$

70. (A) ATQ,

New increment = $\frac{100-90}{90} \times 100 = \mathbf{11 \frac{1}{9} \%}$

71. (A) ATQ,

Required run rate = $\frac{262 - 39 \times 4.4}{11}$
= 8.22

72. (B) ATQ,

Number of shoes = $\frac{20 \times 1500}{100} = \mathbf{300}$

73. (B) ATQ,

Required difference = $\frac{(25-18) \times 1500}{100}$
= 105

74. (C)

75. (B) ATQ,

Required increment = $\frac{(19-18)}{18} \times 100$
= 0.056%

MEANINGS IN ALPHABETICAL ORDER

Word	Meaning in English	Meaning in Hindi
Adamant	Refusing to be persuaded or to change one's mind	अटल
Appropriate	To take exclusive possession of	हथिया लेना
Ardent	Zealous	उत्साही
Blunder	A big mistake	बड़ी गलती
Forfeit	To confiscate	जब्त करना
Glimmer	To shine faintly	चमकना
Grisly	Inspiring horror	डरावना
Grotesque	Absurdly incongruous	विकृत
Horrid	Innately offensive or repulsive	भयंकर
Impassive	Unsusceptible to pain	भावहीन
Maraud	To roam about and raid in search of plunder	लूट-मार करना
Memento	Something that serves to remind	स्मरण कराने वाली वस्तु
Overhaul	Repair, to haul	मरम्मत करना
Pleasing	Attractive or appealing	रमणीय
Procure	To get possession of	प्राप्त करना
Raze	To destroy to the ground, demolish	नष्ट करना
Reticent	Inclined to be silent or uncommunicative in speech	अल्प भाषी
Revamp	Remake, Renovate	नया करना
Sabotage	To damage something deliberately	तोड़-फोड़ करना
Solicit	To urge (as one's cause) strongly	निवेदन करना
Stammer	To utter with involuntary stops	हकलाना
Struck	A temporary stoppage of something	कुछ समय के लिए रूकना
Susceptible	Easily affected, influenced or harmed by something	अतिसंवेदनशील
Totter	To move unsteadily	लड़खड़ाना
Wangle	To make or get by devious means	काम निकलवाना

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SSC MOCK TEST - 120 (ANSWER KEY)

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

79. (C) Correct phrase is 'in spite of'.
86. (D) Here noun is 'increase' and it is singular hence it will agree with 'has'.
87. (C) Correct phrase is 'out of sorts' which means 'to feel slightly unwell'.
97. (D) 'Struck' means 'a temporary stoppage of something'.

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