

**SSC MOCK TEST – 108 (SOLUTION)**

1. (B) As, 1st position in the production of Tea is India. Similarly, 1st position in the production of Coffee is **Brazil**.

2. (A) As,  $45 \times 5 - 45 \times \frac{1}{3} = 210$

Similarly,  $57 \times 5 - 57 \times \frac{1}{3} = 266$

3. (D) As, ACFJ QSVZ  
 $+16$

Similarly, DFIM TVYC  
 $+16$

4. (C) Except **Reed**, all others have one vowel.

5. (B)  $46 - 23 = 23$   
 $97 - 81 = 16$   
 $49 - 42 = 7$   
 $86 - 75 = 11$

6. (C) L NP R Q SU W  
 $+2 \quad +2 \quad +2 \quad +2$   
 I KM O F HJ L  
 $+2 \quad +3 \quad +2 \quad +2$

7. (D) **GLUE**

8. (A) As,  $2 - 0 = 2 > 24$   
 $5 - 1 = 4$   
 $6 - 2 = 4 > 42$   
 $3 - 1 = 2$

Similarly,  $9 - 2 = 7 > 70$   
 $1 - 1 = 0$

9. (D)

10. (D) **S T A T I O N**  
 $\downarrow \downarrow \downarrow \downarrow \downarrow \downarrow$   
**6 4 1 4 2 5 3**

11. (C) L C M B N A O  
 $+1 \quad +1 \quad +1$   
 $-1 \quad -1$

12. (C) 1 9 25 49 169  
 $\downarrow \downarrow \downarrow \downarrow$   
 $1^2 \quad 3^2 \quad 5^2 \quad 7^2 \quad 13^2$

13. (B)  $1 \times 2 = 2$   
 $2 \times 2 = 4$   
 $2 \times 4 = 8$   
 $4 \times 8 = 32$

14. (D) **Bhanu** > Reena > Neha > Aman > Babita.

15. (B) ATQ,

Required number =  $45 - (13 + 9) = 23$

16. (C)  $6 \times 9 + 9 + 6 = 69$   
 $5 \times 6 + 5 + 6 = 41$   
 $4 \times 6 + 6 + 4 = 34$

17. (C)  $(5)^2 - 4 = 21$   
 $(6)^2 - 7 = 29$   
 $(8)^2 - 15 = 49$

18. (A)  $9 \div 3 = 6 - 3$   
 $18 \div 2 = 9 - 0$   
 $16 \div 2 = 12 - 4$

19. (B) As, TEAR RAET  
 $\uparrow \uparrow \uparrow \uparrow$

Similarly, REAR RAER  
 $\uparrow \uparrow \uparrow \uparrow$

20. (B) Dogs Cats Elephants

I. False  
 II. False

21. (B)

22. (B)

23. (B)

24. (A)

25. (A)

27. (C) Maharashtra has become the first Indian state to provide women an injectable contraceptive for free. The state's public health department launched a programme "Antara" on July 10, 2017 to cover Pune, Mumbai, Raigad, Nandurbar, Ahmednagar, Aurangabad, Kolhapur, Sangli, and Beed. The programme will be launched in 23 district hospitals, 20 medical colleges and 12 women's hospitals. The injection will be given intramuscularly to women in age bracket of 18-45 years.

28. (C) In Indian law, public interest litigation means litigation for the protection of the public interest. It is litigation introduced in a court of law, not by the aggrieved party but by the court itself or by any other private party.

29. (B) The primary product of PM Narendra Modi's Pradhan Mantri MUDRA Yojana will be providing refinance for lending to micro businesses/units (medium and small entrepreneurs). The initial products and schemes under this umbrella have already been created and the interventions have been named 'Shishu', 'Kishor' and Tarun
1. Shishu: covering loans up to Rs 50,000
  2. Kishor: covering loans above Rs 50,000 and up to Rs. 5 lakh.
  3. Tarun: covering loans above Rs 5 lakh and up to Rs. 10 lakh.
30. (A) Axis Bank has become the first Indian bank to launch a bio-degradable prepaid gift plastic card to offer its customers a simple way of contributing towards environment-friendly payment solutions. The plastic card is made up of Polyethylene Terephthalate Glycol (PETG) and can decompose easily and can also be recycled.
31. (C) The book "The man who could never say No" has been authored by S Muthiah, the well-known historian. The subject of the book is T. T. Vasu, last son of the famous industrialist T. T. Krishnamachari.
35. (C) **Sir Timothy John Berners-Lee** also known as **TimBL**, is an English engineer and computer scientist, best known as the inventor of the World Wide Web. He made a proposal for an information management system in March 1989 and he implemented the first successful communication between a Hypertext Transfer Protocol (HTTP) client and server via the Internet in mid-November the same year.
36. (A) The Battle of Talikota was fought between Vijaynagar Kingdom and Sultanates of Deccan. The Vijaynagar Kingdom was defeated in the Battle. The war took place on 26th January, 1565.
37. (D) The World Bank was created at the 1944 Bretton Woods Conference, along with three other institutions, including the International Monetary Fund (IMF). The president of the World Bank is, traditionally, an American. The World Bank and the IMF are both based in Washington, D.C., and work closely with each other.
39. (A) When milk is turned into curd then its pH value will decrease due to the production of lactic acid in curd which is acidic in nature.
40. (B) The second plan was to set India on the path of industrialisation. P.C. Mahalanobis was the moving spirit behind the second five year plan. He gave the highest priority to strengthening the industrial base of the economy.
41. (C) The Non-Aligned Movement (NAM) is an international organization (group of countries) who do not want to be officially aligned (friends) with or against any major power bloc (group of countries). In 2012, the movement had 120 members and 15 observer countries. The group was started in Belgrade in 1961.
42. (D) The BIFR was established under The Sick Industrial Companies (Special Provisions) Act, 1985 (SICA). The board was set up in January 1987 and became functional as of 15 May 1987.
43. (A) Subhash C. Garg, a 1983 batch IAS officer of Rajasthan cadre, has taken charge as the new secretary of the Department of Economic Affairs (DEA) in the finance ministry. The post fell vacant after Shaktikanta Das retired on May 31, 2017. As the secretary in the DEA, Garg will oversee capital markets, Budget preparation as well as infrastructure financing and decide on borrowing, along with RBI. He will also decide on funding by multilateral institutions.
44. (D) The United East India Company referred to by the British as the Dutch East India Company, was originally established as a chartered company in 1602. When the Dutch government granted it a 21-year monopoly on the Dutch spice trade.
45. (B) The Humboldt Current is a cold and low-salinity ocean current that flows north along the west coast of South America from the southern of Chile to northern Peru.
47. (A) A type of white blood cell that make antibodies to fight off infections. Phagocytes are the white blood cells that protect the body by ingesting harmful foreign particles, bacteria, and dead or dying cells.
48. (C) A water molecule consists of two hydrogen atoms bonded to an oxygen

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atom, and its overall structure is bent. This is because the oxygen atom, in addition to forming bonds with the hydrogen atoms, also carries two pairs of unshared electrons.

50. (D) Navaratnas were present in the court of Chandragupta II Vikramaditya. The nine gems of the group were

- Amarsimha
- Dhanvantri
- Harisena
- Kalidasa
- Kahapanaka
- Sanku
- Varahamihira
- Vararuchi
- Vetalbhatta

51. (C) ATQ,  
Factors of 2184 =  $12 \times 13 \times 14$   
Hence, Required number = **13**

52. (C) ATQ,

$$\text{Required number} = \frac{\frac{4}{3}\pi(3^3 + 4^3 + 5^3)}{\frac{4}{3}\pi \times 2^3} = \mathbf{27}$$

53. (B) ATQ,

$$\begin{array}{l} A : B \\ 5x : 7 \times 9 \\ \text{Profit } 7 : 5 \end{array}$$

$$\begin{aligned} \text{Then, } \frac{5x}{7 \times 9} &= \frac{7}{5} \\ \Rightarrow x &= \frac{441}{25} = 17\frac{16}{25} \end{aligned}$$

$$\text{Hence, Required time} = \mathbf{17\frac{16}{25} \text{ Months}}$$

54. (B) C.P : M.P : S.P  
100 : 125 : 110

$$\begin{array}{l} \text{Then, Profit : C.P} \\ 110 - 100 : 100 \\ 10 : 100 \end{array}$$

$$\text{Hence, Required ratio} = \mathbf{1 : 10}$$

55. (C) The ratio of these radius varies with the side of the triangles.

56. (D) ATQ,

$$\frac{W + X + Y + Z}{4} = 60$$

$$\Rightarrow \frac{\frac{W + Z}{2} + \frac{X + Y}{2}}{2} = 60$$

$$\Rightarrow \frac{W + Z}{2} = 120 - 60 = 60$$

$$\Rightarrow \text{The average of } W \text{ and } Z = 60$$

$$\begin{array}{l} \text{Then, } 45 \quad 80 \\ \quad \quad 60 \\ \quad \quad 20 : 15 \\ \quad \quad 4 : 3 \end{array}$$

$$\text{Hence, Required ratio} = \mathbf{4 : 3}$$

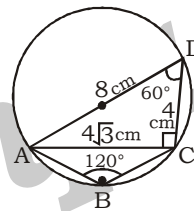
57. (B) ATQ,  
Required Average Price  
$$= \frac{13 \times 12 + 17 \times 15}{13 + 15}$$

$$= \frac{411}{28} = \mathbf{₹14.67}$$

58. (B) ATQ,  
LCM of 5, 6, 7 and 9 = 630

$$\begin{aligned} \text{Hence, Required time} &= 1 : 00 + \frac{630}{60} \text{ min} \\ &= \mathbf{1:10:30 \text{ pm}} \end{aligned}$$

59. (A) ATQ,



$$\begin{aligned} \text{Hence, Required area} &= \frac{1}{2} \times 4\sqrt{3} \times 4 \\ &= \mathbf{8\sqrt{3} \text{ cm}^2} \end{aligned}$$

60. (D) ATQ,  
 $10M \times 16 = 14B \times 16$   
 $5W = 7B$   
 $\Rightarrow 25W = 35B$

$$\text{Then, } \frac{5W + 25W}{3} \times D = 10W \times 16$$

$$\frac{30 \times D}{3} = 10 \times 16 \Rightarrow D = 16$$

$$\text{Hence, Required Days} = \mathbf{16 \text{ days}}$$

61. (B) ATQ,

$$\frac{4}{3}\pi r^3 = 4\pi r^2$$

$$\Rightarrow r = 3$$

$$\text{Hence, Required radius} = \mathbf{3 \text{ units}}$$

62. (D) ATQ,  
 $(x + y) = 2b$  ---- (i) and,  
 $x - y = 2a$  ---- (ii)  
then, squaring and adding both equation.  
 $(x + y)^2 + (x - y)^2 = 4b^2 + 4a^2$   
 $\Rightarrow 2(x^2 + y^2) = 4(a^2 + b^2)$

63. (B) ATQ,

$$x^2 - y^2 = (x - y)(x^2 + y^2 + xy)$$

$$\Rightarrow \frac{1}{x^2 + y^2 + xy} = \frac{x-y}{x^3 - y^3} = \frac{x-y}{(28-27)} = x-y$$

Then,  $x + y - x + y = 2y = 2 \times 3 = 6$

Hence,  $x + y - \frac{1}{x^2 + xy + y^2} = 6$

64. (C) ATQ,

$$\text{Required Percent} = \frac{12 \times 55}{100} \times 100$$

$$= \frac{14}{14} \times 100$$

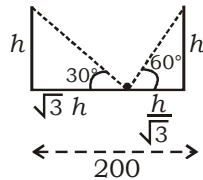
$$= \mathbf{47.14\%}$$

65. (C) ATQ,

$$\text{Required Cost Price} = \frac{550}{100} \times \frac{80}{125} \times 100$$

$$= \mathbf{₹352}$$

66. (B) ATQ,



Then,

$$\sqrt{3}h + \frac{h}{\sqrt{3}} = 200$$

$$\Rightarrow h = 50\sqrt{3}$$

Hence, required height =  $\mathbf{50\sqrt{3} \text{ m}}$

67. (A) ATQ,

Put  $\theta = 45^\circ$

$$2 \sin \theta - \cos \theta = 2 \sin 45^\circ - \cos 45^\circ$$

$$= \frac{2}{\sqrt{2}} - \frac{1}{\sqrt{2}} = \frac{1}{\sqrt{2}}$$

then,  $2 \cos 45^\circ + \sin 45^\circ = \frac{2}{\sqrt{2}} + \frac{1}{\sqrt{2}} = \frac{3}{\sqrt{2}}$

68. (B) ATQ,

$$\sqrt{38.44} + \sqrt{0.3844} + \sqrt{0.00003844}$$

$$= 6.2 + 0.62 + 0.0062$$

$$= \mathbf{6.8262}$$

69. (B) ATQ,

The quantity of water =  $\frac{30 \times 75}{100} = 22.5$

kg

Then, the quantity of new mixture

$$= \frac{22.5}{125} \times 100 \times 2 = 36 \text{ kg}$$

Hence, Required quantity =  $36 - 30 = \mathbf{6 \text{ kg}}$

70. (D) ATQ,

$$a + b = 6$$

Taking cubes on both sides

$$\Rightarrow (a + b)^3 = (6)^3$$

$$\Rightarrow a^3 + b^3 + 3ab(a + b) = 216$$

$$\Rightarrow a^3 + b^3 + 18ab = 144 + 72$$

$$\Rightarrow a^3 + b^3 + 18ab - 144 = \mathbf{72}$$

71. (C) ATQ,

$$12000 \left(1 + \frac{r}{100}\right)^2 = 13996.8$$

$$\Rightarrow \left(1 + \frac{r}{100}\right)^2 = \frac{139968}{120000}$$

$$\Rightarrow \left(1 + \frac{r}{100}\right)^2 = \left(\frac{108}{100}\right)^2$$

$$\Rightarrow r = 8\%$$

Hence, Required rate =  $\mathbf{8\%}$

72. (B) ATQ,

Required ratio =

$$(15 + 12\frac{1}{2} + 25) : (10 + 15 + 12\frac{1}{2})$$

$$\Rightarrow 52\frac{1}{2} : 37\frac{1}{2}$$

$$\Rightarrow 7 : 5$$

Hence, required ratio =  $\mathbf{7 : 5}$

73. (D) ATQ,

Expenditure on Basket ball

$$= \frac{12.5}{100} \times 12,000,000$$

$$= \mathbf{₹15,00,000}$$

74. (D) ATQ,

Required Angle =  $\frac{(15+15+10)}{100} \times 360^\circ =$

$$\mathbf{144^\circ}$$

75. (A) ATQ,

Expenditure on Tennis =  $\frac{2,000,000}{25} \times 10$

$$= \mathbf{₹80,00,00}$$

**MEANINGS IN ALPHABETICAL ORDER**

<b>Word</b>	<b>Meaning in English</b>	<b>Meaning in Hindi</b>
<b>Aristocracy</b>	government by nobles	श्रेष्ठ लोगो द्वारा चलाए जाने वाले शासन
<b>Cable</b>	a strong rope	एक मजबूत रस्सा
<b>Constrain</b>	severely restrict the activity of	रोकना, बाधित करना
<b>Contradict</b>	to assert the opposite of something	विरोध करना
<b>Conventional</b>	usual or traditional	पारम्पारिक
<b>Cudgel</b>	a short thick stick used as weapon	लाठी
<b>Cut down</b>	to reduce	घटाना, कम करना
<b>Dexterity</b>	skill in performing tasks	कौशल, निपुणता
<b>Effeminate</b>	(of a man) having characteristics of women	स्त्री जैसा गुण
<b>Erroneous</b>	not correct	गलत
<b>Exhort</b>	to strongly urge someone to do something	आग्रह करना
<b>Feminine</b>	having qualities or an appearance associated with women	औरत जैसा
<b>Feminism</b>	an ideology that seeks total equality in rights for women	नारीवाद
<b>Feminist</b>	a person who supports feminism	नारीवादी
<b>Hereditary</b>	genetically transmitted from parent to offspring	अनुवंशिक
<b>Ineptitude</b>	lack of skill or ability	अकुशलता
<b>Intellect</b>	the ability to think and understand	अक्ल, बुद्धि
<b>Inventiveness</b>	the quality of being inventive, creative	कल्पनाशीलता
<b>Lasso</b>	a rope with a noose at one end	रस्सी का फंदा
<b>Maxim</b>	a general truth, fundamental principle	कहावत
<b>Mercenary</b>	(of a soldier) one that serves merely for wages	किराए का सैनिक
<b>Nomad</b>	an individual who roams about	घुमक्कड़
<b>Nonconformist</b>	a person who does not conform to conventional thought	वह व्यक्ति जो पारंपरिक विचारो को नहीं मानता हो
<b>Obstruct</b>	to block by an obstacle	बाधा डालना
<b>Passive</b>	not active	निष्क्रिय
<b>Patrimony</b>	an estate inherited from one's father or ancestor	पैतृक धन
<b>Philogynist</b>	a person who likes women	स्त्री प्रेमी
<b>Proficiency</b>	advancement in knowledge or skill	दक्षता, निपुणता
<b>Prowess</b>	bravery in battle	वीरता, शूरता
<b>Strand</b>	the land bordering a body of water	किनारा
<b>Tackle</b>	make determined effort to deal with	कड़ी मेहनत से सामना करना

**SSC MOCK TEST - 108 (ANSWER KEY)**

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

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

Opinion   Size   Age   Shape   Colour  
 1            2            3            4            5  
Origin   Material   Purpose + Noun  
 6            7            8

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

77. (C) If a word has negative meaning, we do not use 'not' with that word. Words that do not take not after them are: unless, until, deny, prohibit, lest, hardly, barely, rarely and scarcely. Hence replace 'does not have' with 'has'.

78.(C) Replace 'charged straight after me' with 'charged straight at me'. 'Charge at

someone' means 'to rush forward to attack'.

79.(D) 'Look for something' means 'to hope to get something that you want or need'.

81.(D) 'Give off something' means 'to produce something such as heat, light etc'.

88.(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.'

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

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

91. (B) When a sentence or clause starts with 'neither' it takes inversion form.

Replace 'I did not either' with 'neither did I'

**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**