

**SSC MOCK TEST - 117 (SOLUTION)**

1. (B) Index shows Content. Similarly,  
**Calendar** shows date

2. (D) R E N O U N C E  
↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓  
18+5+14+15+21+14+3+5 = 95

Similarly, C A L E N D E R  
↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓  
3+1+12+5+14+4+5+18 = 62

3. (A)  $(2 \times 4 \times 3)^2 + 243 = 819$   
 $(1 \times 6 \times 3)^2 + 163 = 487$

4. (C) Except **Race**, in all other games, ball is used to play.

5. (C) B D G K Q S V Z  
↑ ↑ ↑ ↑    ↑ ↑ ↑ ↑  
+2 +3 +4    +2 +3 +4  
O Q T W I K N R  
↑ ↑ ↑ ↑    ↑ ↑ ↑ ↑  
+2 +3 +3    +2 +3 +4

6. (C)  $(10)^2 = 100 \Rightarrow 100 \times \frac{5}{2} = 250$

$(14)^2 = 196 \Rightarrow 196 \times \frac{5}{2} = 490$

$(6)^2 = 36 \Rightarrow 36 \times 3 = 108$

$(2)^2 = 4 \Rightarrow 4 \times \frac{5}{2} = 10$

7. (A) Decollete → Decorous → Desecrate → Despicable → Destitute

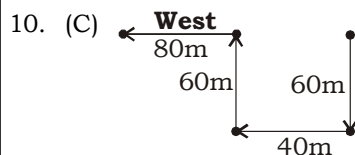
8. (D) aabcdabcda bccdabcd

9. (C) ATQ,

$$\frac{x+6}{x+2+6} = \frac{7}{8}$$

⇒ x = 8

Hence, the ages of A and B = 8 years and 10 years respectively



11. (B) 4    6    15    43    108  
↑    ↑    ↑    ↑    ↑  
1<sup>3</sup>+1    2<sup>3</sup>+1    3<sup>3</sup>+1    4<sup>3</sup>+1

12. (B) A Z P    B X S    C V V    D T Y  
↑    ↑    ↑    ↑    ↑    ↑    ↑    ↑    ↑  
+1    +1    +1    +1    +1    +1    +1    +1    +1  
-2    -2    -2    -2    -2    -2    -2    -2    -2  
+3    +3    +3    +3    +3    +3    +3    +3    +3

13. (C) Z Z Z    Y X W    X V T    W T Q  
↑    ↑    ↑    ↑    ↑    ↑    ↑    ↑    ↑  
-1    -1    -1    -1    -1    -1    -1    -1    -1  
-2    -2    -2    -2    -2    -2    -2    -2    -2  
-3    -3    -3    -3    -3    -3    -3    -3    -3

14. (A) S U M M E R    S D N L V R  
↑    ↑    ↑    ↑    ↑    ↑    ↑    ↑    ↑  
+1    +1    +1    +1    +1    +1    +1    +1    +1  
-1    -1    -1    -1    -1    -1    -1    -1    -1  
+1    +1    +1    +1    +1    +1    +1    +1    +1  
-1    -1    -1    -1    -1    -1    -1    -1    -1

Similarly, W I N T E R    S D U M J V  
↑    ↑    ↑    ↑    ↑    ↑    ↑    ↑    ↑  
+1    +1    +1    +1    +1    +1    +1    +1    +1  
-1    -1    -1    -1    -1    -1    -1    -1    -1  
+1    +1    +1    +1    +1    +1    +1    +1    +1  
-1    -1    -1    -1    -1    -1    -1    -1    -1

15. (C) ATQ,  
 $3^3 \div 9 = 3$

$6^3 \div 12 = 18$

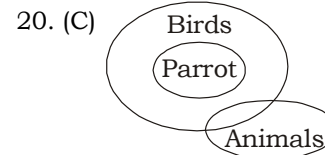
$8^3 \div 32 = 16$

16. (A)  $(1 \times 2 \times 3 \times 5) + (1 + 2 + 3 + 5) = 41$   
 $(3 \times 4 \times 2 \times 6) + (3 + 4 + 2 + 6) = 159$   
 $(9 \times 8 \times 3 \times 4) + (9 + 8 + 3 + 4) = 888$

17. (B)  $2232 \div 2 = 1116$   
 $1116 \div 3 = 372$   
 $372 \div 4 = 93$

18. (D)  $5 \times 6 + 5 + 6 = 41$   
 $7 \times 8 + 7 + 8 = 71$   
 $5 \times 9 + 5 + 9 = 59$

19. (B)



I. False

II. True

21. (B)    22. (C)    23. (A)  
24. (D)    25. (D)

26. (A) Homerun's Tomb has been acclaimed as the "Necropolis of the Mughal". It was built by Humayun's wife Bega Begum and derived by Mirza Ghiyas. It was listed in world heritage list in 1993. It is located in Delhi.

28. (A) Rised rouate drug is used to cure osteoporosis. Osteoporosis is a condition in which bone becomes weak and brittle. It mainly occurs in old age people.

29. (B) Acetone is present in Nail polish remover. It's chemical formula is  $C_3H_6O$ .
30. (A)  $K^+$  is the formula of potassium ion in the noble gas state. It is not produce by body It's source is fruit, vegetable, meats, etc. If it is in excess, it cause hyperkalemia.
32. (A) Qatar is the highest per capita emitter of carbon Dioxide.  $CO_2$  is a green house gases. In total emission of  $CO_2$  China is first followed USA (2<sup>nd</sup>) Russia (3<sup>rd</sup>) and India (4<sup>th</sup>)
33. (D) Hyderabad is the Capital City of Telangana. Mahavir Harina Vanasthali National Park is also in Telangana. Hyderabad is situated on the bank of Musi River.
35. (D) Lord Canning was first Viceroy and Governor General of Pre Independence era. Lord Canning was the Governor-General of India during the Indian rebellion of 1857.
36. (C) Jahangir was the son of Akbar. He was born 1563 in Fatehpur Sikri. His childhood name was Salim. The art of Mughal Painting reached great height under Jahangir's reign. He was died in 1627 and his tombs in Lahore.
37. (C) If displacement in zero, work is zero, It is a scalar quantity. Work can be either positive or negative. It's unit is Joule.
38. (A) Inertia is tendency to resist change in the current state. Newton's first law is called law of Inertia.
39. (B) Article 356 of the Indian constitution is about Imposition of president rule in states. In the event that a state Govt. is not able to function as per the constitution, then Governor of the state prays president for President Rule.
42. (D) The Dholavira is the largest Indus Valley Site in independent India. It is located on Khadir Beyt, an island in the Great Rann of Kutch in Gujarat. It has been excavated by R S Bisht team of ASI. It had three citadels. Each of these three citadels of Dholavira was improved than Harappa and Mohen-jo-Daro and had an inner closure as well.
43. (C) Agriculture continues to play the primary role in the country's development and is still the mainstay to our large growing population for its sustained food security.
44. (C) The Maharashtra government has recently launched India's first comprehensive 'Crime Criminal Tracking Network System' (CCTNS) through 42 cyber labs in Mumbai on August 15<sup>th</sup>, 2016. Under the CCTNS, all police stations in the state will be linked with one another for sharing information about crimes in their respective jurisdictions and pave the way for a digital police force in Maharashtra.
46. (B) Karnataka will host the 15<sup>th</sup> edition of Pravasi Bharatiya Divas (PBD) 2017 in Bengaluru for 3 days from January 7<sup>th</sup>, 2017. The theme of 2017 PBD is "Redefined Engagement With Indian Diaspora". The PBD convention is held on January 9<sup>th</sup> each year to commemorate the return of Mahatma Gandhi from South Africa in 1915. It is celebrated to mark the contribution of the overseas Indian community to the development of the country.
48. (D) The Indian Space Research Organization (ISRO) will launch the INSAT-3DR satellite into orbit by the GSLV-F05 rocket vehicle from the Satish Dhawan Space Centre at Sriharikotta, Andhra Pradesh. The INSAT-3DR is a modern weather satellite and has a mission duration of 8 years. It will help to predict weather patterns and also provide search and rescue information.
49. (B) Pench National Park is in Seoni and Chhindwara districts of Madhya Pradesh in India.
50. (C) India's first sunken museum will be set up at the World Heritage Site of Humayun's Tomb in New Delhi. The interactive museum will open to the public in early 2018 and will display a mix of artifacts that have been locked up in the reserve collections of the National Museum, National Archives and museums of the Archaeological Survey of India (ASI). It will focus on bringing alive the 7-centuries of pluralistic cultural traditions and architectural history of the Nizamuddin area.

51. (A) ATQ,  
Numbers that divisible by 3 = 51  
Number that divisible by 7 = 22  
Number that divisible by (3, 7) = 8  
Hence, total number = 151 - (51 + 22 - 8)  
**= 86**

52. (C) ATQ,  

$$\begin{array}{ccc} A \rightarrow 30 & \searrow & 480 \\ & & \nearrow & 16 \\ A \rightarrow 32 & \nearrow & 480 & \searrow & 15 \end{array}$$
 Required percentage =  $\frac{(16+15) \times 7}{480} \times 100$   
**= 45.21%**

53. (B) ATQ,  
Total Area =  $\frac{1}{2} \times (21 + 29) \times 35$   
**= 875cm<sup>2</sup>**

54. (C) ATQ,  
Required discount =  $56 + 14 - \frac{56 \times 14}{100}$   
**= 62.16%**

55. (C) ATQ,  
Let the total capacity of vessel = LCM of (5, 11, 15) = 165  
then,  

Milk	:	Water
66 + 60 + 77	:	99 + 105 + 88
<b>203</b>	:	<b>292</b>

56. (A) ATQ,  
The age of servant =  $\frac{30 \times 120}{100} \times 6 - 5 \times 30$   
**= 66 years**

57. (C) ATQ,  
C.P. = 100%  
S.P. = 270%  
Again,  
New C.P. = 115  
then, Profit on S.P. =  $\frac{(270 - 115)}{270} \times 100$   
**= 57.4%**

58. (D) ATQ,  

A	:	B	:	C
128	:	100	:	
85	:		:	100

$$\Rightarrow 544 : 425 : 640$$
 then, C's marks =  $\frac{340}{425} \times 640$   
**= 512**

59. (A) ATQ,  
Distance travelled by A till 11:00 am =  $25 \times 2 = 50$   
then, time taken to meet =  $\frac{260 - 50}{25 + 10}$   
**= 6 hours**  
Hence, Required time  
= 11 : 00 am + 6 hours  
**= 5:00 pm**

60. (B) ATQ,  

$$2700 \times \left(1 + \frac{r}{100}\right)^2 = 3091.23$$

$$\Rightarrow \left(1 + \frac{r}{100}\right)^2 = \left(\frac{107}{100}\right)^2 \Rightarrow r = 7\%$$

61. (C) ATQ,  

$$\frac{1}{x} + \frac{1}{y} + \frac{1}{z} = 0$$

$$\Rightarrow xy + yz + zx = 0$$
 Again,  $(x+y+z)^2 = x^2 + y^2 + z^2 + 2(xy + yz + zx)$   

$$\Rightarrow 121 = x^2 + y^2 + z^2$$
 then,  $x^3 + y^3 + z^3 - 3xyz = (x+y+z)(x^2 + y^2 + z^2 - xy - yz - xz)$   
**= 11 \times 121 = 1331**

62. (D) ATQ,  

$$x^4 + \frac{1}{x^4} = 119$$
 then,  

$$\Rightarrow x^2 + \frac{1}{x^2} = 11$$
 then, square root on both side  

$$\Rightarrow x - \frac{1}{x} = 3$$
 then, taking cube on both side  

$$\Rightarrow x^3 - \frac{1}{x^3} = 3^3 + 3 \times 3 = 36$$

63. (A) ATQ,  

$$x = 2 - y$$

$$x^2 = 3 + y^2$$

$$\Rightarrow (2 - y)^2 = 3 + y^2$$

$$\Rightarrow 4 + y^2 - 4y = 3 + y^2$$

$$\Rightarrow y = \frac{1}{4} \Rightarrow x = 2 - \frac{1}{4} = \frac{7}{4}$$
 Hence  $xy = \frac{1}{4} \times \frac{7}{4} = \frac{7}{16}$

64. (C) ATQ,  

$$x + \frac{1}{(x+7)} = 0$$

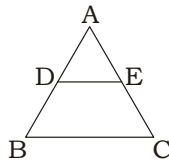
$$\Rightarrow x + 7 + \frac{1}{x+7} = 7$$
 Squaring on both sides  

$$(x+7)^2 + \frac{1}{(x+7)^2} = 7^2 - 2$$
 Square root on both side.  

$$(x+7) - \frac{1}{(x+7)} = \sqrt{47-2}$$

$$\Rightarrow x - \frac{1}{x+7} = 3\sqrt{5} - 7$$

65. (A) ATQ,

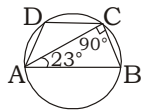


$\angle ADE = \angle ABC$  and  $\angle AED = \angle BCA$   
then,  $\triangle ADE \sim \triangle ABC$  ( $\because DE \parallel BC$ )

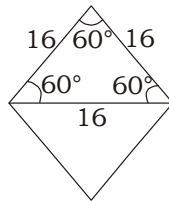
$$\Rightarrow \frac{DE}{BC} = \frac{AD}{AB} = \frac{5}{5+3} = \frac{5}{8}$$

$$\Rightarrow \frac{DE}{BC} = \frac{5}{8}$$

66. (D) ATQ,



$\angle ADC = 180^\circ - (90^\circ - 23^\circ) = 113^\circ$   
67. (B) ATQ,



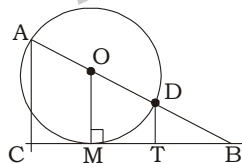
$$\text{then, } 2 \times \frac{\sqrt{3}}{4} \times 16 \times 16 = \frac{d_1 \times 16}{2}$$

$$\Rightarrow d_1 = 16\sqrt{3}$$

Hence, Area of equilateral triangle

$$= \frac{\sqrt{3}}{4} \times 16\sqrt{3} \times 16\sqrt{3} = 192\sqrt{3} \text{ cm}^2$$

68. (A)  $\triangle ABC \sim \triangle OBM$



$$\Rightarrow \frac{OB}{AB} = \frac{OM}{AC} \Rightarrow \frac{OB}{5+OB} = \frac{5}{9}$$

$$\Rightarrow 9OB = 25 - 5OB$$

$$\Rightarrow OB = \frac{25}{4}$$

Again,

$$\triangle ABC \sim \triangle DBT \Rightarrow \frac{AC}{DT} = \frac{AB}{DB}$$

$$\Rightarrow \frac{9}{DT} = \frac{5 + \frac{25}{4}}{\frac{45}{4} - 5} \Rightarrow DT = \frac{45}{\frac{4}{5}} \times \frac{1}{9}$$

$$\Rightarrow DT = 1 \text{ cm}$$

Hence,  $DT = 1 \text{ cm}$

69. (A) ATQ,

$$\begin{aligned} & (\operatorname{cosec} A + \sin A)(\operatorname{cosec} A - \sin A) \\ &= (\operatorname{cosec}^2 A - \sin^2 A) \\ &= 1 + \cot^2 A - 1 + \cos^2 A \\ &= \cot^2 A + \cos^2 A \end{aligned}$$

70. (C) ATQ,

$$\tan 75^\circ = \tan (45^\circ + 30^\circ)$$

$$= \frac{\tan 45^\circ + \tan 30^\circ}{1 - \tan 45^\circ \tan 30^\circ}$$

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

71. (C) ATQ,

$$\frac{\sin 2A}{\cos 2A} \times \cot 2A = \frac{\sin 2A}{\cos 2A} \times \frac{\cos 2A}{\sin 2A} = 1$$

72. (B) ATQ,

$$\begin{aligned} \text{Total literate people} &= 600000 \times \frac{63}{100} \times \frac{1}{2} \\ &= 37800 \end{aligned}$$

73. (C) ATQ, Ratio

Literate male of city 2 : Literate female of city 6

$$\frac{220000 \times 675}{100} \times \frac{7}{11} : \frac{200000 \times 58}{100} \times \frac{3}{5}$$

$$595 : 348$$

74. (A) ATQ,

Total population of city 5

$$= 259210 \times \frac{16}{7} \times \frac{100}{92} = 644000$$

75. (A) ATQ,

$$\begin{aligned} \text{Literate people in city 1} &= 250000 \times \frac{80}{100} \\ &= 200000 \end{aligned}$$

$$\begin{aligned} \text{Literate people in city 2} &= 200000 \times \frac{85}{100} \\ &= 170000 \end{aligned}$$

$$\begin{aligned} \text{Literate people in city 3} &= 220000 \times \frac{78}{100} \\ &= 171600 \end{aligned}$$

$$\begin{aligned} \text{Literate people in city 4} &= 300000 \times \frac{63}{100} \\ &= 189000 \end{aligned}$$

$$\begin{aligned} \text{Literate people in city 5} &= 150000 \times \frac{92}{100} \\ &= 138000 \end{aligned}$$

$$\begin{aligned} \text{Literate people in city 6} &= 400000 \times \frac{58}{100} \\ &= 232000 \end{aligned}$$

Hence,

**City 6 > city 1 > city 4 > city 3 > city 2 > city 5** is correct order.

**MEANINGS IN ALPHABETICAL ORDER**

<b>Word</b>	<b>Meaning in English</b>	<b>Meaning in Hindi</b>
<b>Acclaim</b>	Praise enthusiastically and publicly	प्रशंसा करना
<b>Appalling</b>	Inspiring horror, dismay, or disgust	भयंकर, भयावह
<b>Applaud</b>	Show approval or praise by clapping	सराहना
<b>Barren</b>	Not productive, desolate, fruitless	बंजर भूमि
<b>Billowed</b>	Wave, especially a great wave or surge of water	विशेषतः जलतरंग
<b>Bouffant</b>	(of a person's hair) styled so as to stand out from the head in a rounded shape	घुँघराले बाल
<b>Braid</b>	A hair style formed by weaving three or more strands of hair	गुथना
<b>Colony</b>	A community of animals or plants of one kind living close together or forming a physically connected structure	एक प्रकार के जानवरों का समूह
<b>Contemplative</b>	Look thoughtfully for a long time at	ध्यानशील
<b>Dependant</b>	A person who relies on another, especially a family member	आश्रित
<b>Dire</b>	Extremely serious or urgent	भीषण
<b>Drove</b>	A herd or flock of animals being driven in a body	जानवरों का झुण्ड
<b>Eulogize</b>	To speak highly praising manner	प्रशंसा करना
<b>Flock</b>	Group of birds	पक्षियों का समूह
<b>Ghastly</b>	Causing great horror or fear	भयंकर
<b>Glabrous</b>	(chiefly of the skin or a leaf) free from hair, smooth	चिकना
<b>Hirsute</b>	Hairy	रोयेंदार, बालदार
<b>Imminent</b>	About to happen	सन्निकट
<b>Meow</b>	The cry of a cat	बिल्ली की आवाज
<b>Pensive</b>	Musingly or dreamily thoughtful	विचारमग्न
<b>Petrified</b>	To make (someone) very afraid	डराना
<b>Prosody</b>	The rhythmic and intonational aspect of language	छंद शास्त्र
<b>Purr</b>	A low vibratory murmur typical of an apparently contented or pleased cat	बिल्ली की आवाज जब वह खुश हो
<b>Quibble</b>	A slight objection or criticism.	आलोचना
<b>Reassure</b>	Say or do something to remove the doubts and fears of (someone)	साहस दिलाना
<b>Reliance</b>	Dependence on or trust in someone or something	निर्भर
<b>Swoon</b>	To become enraptured faint, droop, fade	बेहोश
<b>Trance</b>	Stupor, daze, a sleep like state	बेहोशी की हालत

**SSC MOCK TEST - 117 (ANSWER KEY)**

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

86. (C) When each, every, neither, either, anyone, is used as subject, 3rd person singular is uses as the possessive case. Thus replace 'theirs' with 'his'. However the noun or pronoun following 'of' is plural in form.
87. (D) Past continuous tense is used to show that something continued for some time. Hence 'The wolf was waiting'. is correct
93. (C) Indefinite article 'a/an' is used before singular countable noun. Hence replace article 'the' with 'a'.

**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**