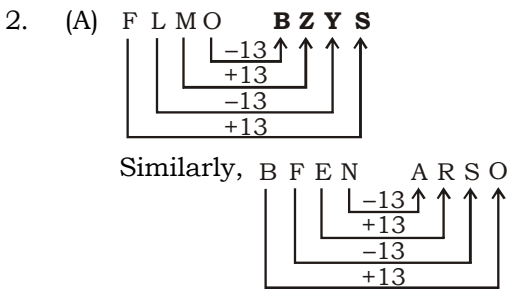


SSC MOCK TEST – 118 (SOLUTION)

1. (B) Distance is measured by odometer. Similarly, **Pressure** is measured by Barometer.

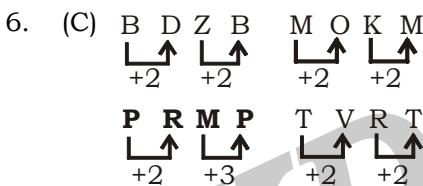


3. (B) $(5 \times 6 \times 1)^2 + 5 + 6 + 1 = 912$
 $(1 \times 4 \times 1)^2 + 1 + 4 + 1 = 22$

4. (D) $24 = 1 \times 6 \times 1 \times 4$
 $270 = 5 \times 6 \times 9$
 $120 = 4 \times 3 \times 2 \times 5$

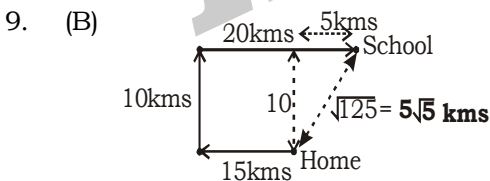
$162 \neq 6 \times 9 \times 3 \times 0 = 0$

5. (A) Except **Root**, all the parts of a tree can be seen.

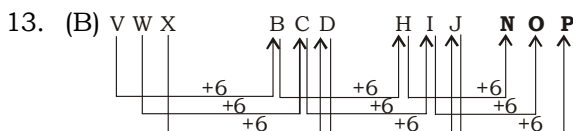
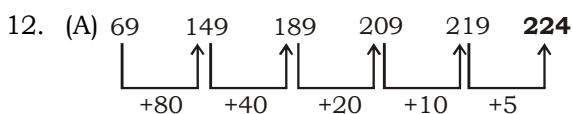
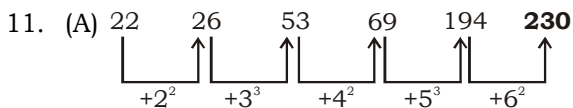


7. (B) Dilled → Dillydallied → Dillydallies → Dillydally → Dillydallying.

8. (D) LMNOONMLLMNOONML



10. (B) Sagar > Tarun > Amit > Anu but Reena has not least marks. So, **Anu** has least marks.



14. (C)

15. (A) T A R G E T
 ↓ ↓ ↓ ↓ ↓ ↓
 20 1 18 7 5 20

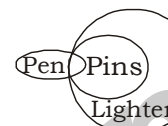
Similarly, W I L L I U M
 ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓
 23 9 12 12 9 21 13

16. (B) $7 \div 9 - 4 = 67 \Rightarrow 7 \times 9 + 4 = 67$
 $15 \div 3 - 7 = 52 \Rightarrow 15 \times 3 + 7 = 52$
 $7 \div 17 - 9 = 128 \Rightarrow 7 \times 17 + 9 = 128$

17. (A)

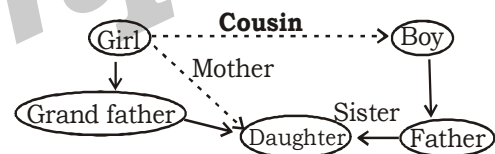
18. (C) $8 \times 5 + 9 \times 6 = 94$
 $10 \times 2 + 15 \times 3 = 65$
 $5 \times 5 + 5 \times 20 = 125$

19. (D)



I. True
 II. false

20. (B)



21. (B) Except 5, all others faces of dice is adjacent of face containing 2. Hence, face containing **2** is opposite to face containing 5.

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

26. (D) Konark Sun temple is built in the form of the chariot of surya, the sun god with 24 wheels. It was built by Narasimhadeva I of Eastern Ganga Dynasty in 1255 ce.

27. (B) Kangana Ranaut has won three National award.

1. Best Actress award (2016) - Tanu Weds Manu Returns
2. Best Actress (2015) - Queen
3. Best supporting Actress (2010) - Fashion

28. (A) Bromine has the lowest melting point. It is used in water purification to control algae and bacterial problem. Bromine was discovered by J. Balard.

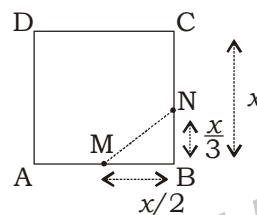
29. (D) Some roots, called adventitious roots, arise from an organ other than the radical like corms, bases of leaves etc.

30. (A) Spiders belong to Arachnids class of animals. All arachnids have eight legs. It is of Arthropoda Phylum.

31. (C) Vitamin A is also known as Retinal Vitamin deficiency cause Eyesight problem and zeroflaithimia. Milk, Egg, Fixn etc are the rich source of Vitamin A. It is soluble in "fat".
32. (D) Isfahan, the persian capital is said to have been the inspiration to build Read Fort complex monument. It was built by Shan Jahan.
33. (D) C.V. Raman won the Novel prize in 1930 for Raman effect in the field at light scattering.
34. (D) Organisms that generate energy using light are known as Photoautotrophs like Algae etc.
36. (B) Natural rubber is an clastomere, a polymer of chloroprene. It is heated with sulphur compounds to improve its properties. Hevea Brasiliensic is known as rubber tree.
38. (A) Vallam Kali Boat Race is a famous traditional, race at Kerala. It is held on the occasion at harvesting festival Onam in Kerala. Nehru Trophy Boat Race is famous Vallam Kadi event held in Punnamada Lake of Kerala.
39. (B) Carbon monoxide gases is produced due to incomplete combustion of fuel. It's chemical formula is CO. It is a primary green house gas.
40. (D) Allium cepa is the scientific name of Onion. It is good source of Manganese vitamin B6, Copper, vitamin C, dietary fibre etc. The onion production state in descending order Maharashtra (1st) Karnataka (2nd), Madhya Pradesh (3rd) and Bihar (4th). Worldwide China (1st) India (2nd) United States (3rd) Pakistan (4th).
41. (C) Udant Martand is the first Hindi newspaper of India. It was started on 30th May 1826 Calcutta, the weekly newspaper published by Jugal Kishor Shukla.
44. (D) Constitution Day of India is on 26th November. On this day is 1949, the constituent Assembly of India adopted the constitution of India and it came into effect on 26th January 1950
45. (A) The Article 44 of the Indian Courtitution "Uniform civil code for the citizens" deals with the directive principles of state policy.
46. (D) Virender Sehwaq is the first Indian Cricketer to have scored a triple hundred in test cricket.
47. (D) Human skin has three Layers. Epidermis dermis and hypodermis. Epidermis

is the outermost layer of skin. After that Dermis in present with follicles and sweet glands. The deeper hypodermis is made of fat and connective tissue.

48. (C) Riyadh is the Capital of Saudi Arabia
49. (B) World Alzheimer's Day is organized across the world on 21st September. The theme for World Alzheimer's Day 2017 is 'Remember me'.
50. (D) Weight of a person at a height of 2R from the centre of the earth, where R is the radius of the earth becomes one fourth.
51. (B) ATQ,



$$\text{Area of } \triangle MNB = \frac{1}{2} \times \frac{x}{2} \times \frac{x}{3} = 48$$

$$\Rightarrow x = 24$$

then, the length of the side of square = 24 cm

Hence, the diagonal of square = $24\sqrt{2}$ cm

52. (B) ATQ,

$$2883 = 31 \times 31 \times 3$$

Multiply by 3 both sides

$$\text{then, } 2883 \times 3 = 31 \times 31 \times 3 \times 3$$

Square root on both sides,

$$\sqrt{2883 \times 3} = 93$$

Hence, **3** is required number.

53. (D) ATQ,

$$x \times \frac{R}{100} \times \frac{16}{3} = x$$

$$\Rightarrow R = 18\frac{3}{4}\%$$

54. (D) ATQ,

$$\begin{array}{l} A \rightarrow 11 \\ B \rightarrow 13 \\ C \rightarrow 15 \end{array} \left. \begin{array}{l} \searrow \\ \rightarrow \\ \nearrow \end{array} \right\} 2145 \left. \begin{array}{l} \swarrow \\ \rightarrow \\ \searrow \end{array} \right\} \begin{array}{l} 195 \\ 165 \\ 143 \end{array}$$

$$\text{Work done in two days} = 2 \times (195 + 165 + 143) = 1006$$

then, Required time

$$= \frac{2145 + 165 \times 3 - 1006}{308} + 2 = 7\frac{47}{154} \text{ days}$$

55. (B) ATQ,

$$\text{Marked price} = \frac{2485}{(100 - 29)} \times 100 = \text{₹}3500$$

56. (C) ATQ,

$$\text{Required number} = \frac{27}{(32-26)} \times 100 = \mathbf{450}$$

57. (B) ATQ,

Required increment

$$= 2 \times 3 \times \frac{22}{7} \times \left(\frac{14}{2}\right)^2 - 4 \times \frac{22}{7} \times \left(\frac{14}{2}\right)^2 = \mathbf{308 \text{ cm}^2}$$

58. (A) Let the distance between two trees = 1m
ATQ,

then, the distance between 1st and 16th tree = 15m

Similarly, the distance between 1st and 61th trees = 60m

$$\text{Hence, Required time} = \frac{(60-15)}{15} \times 25 = \mathbf{75 \text{ sec}}$$

59. (A) ATQ,

$$\text{Required average} = \frac{115(115+1)}{2 \times 115} = \mathbf{58}$$

60. (B) ATQ,

Required Loss

$$= \frac{600 \times 100}{80} + \frac{600 \times 100}{120} - 600 - 600 = -50$$

Hence, loss = **₹50**

61. (B) ATQ,

$$\sqrt{\frac{(1-\cos A)}{(1+\cos A)}} = \sqrt{\frac{(1-\cos A)^2}{1-\cos^2 A}}$$

$$= \frac{1-\cos A}{\sin A} = \frac{1}{\sin A} - \frac{\cos A}{\sin A}$$

$$= \mathbf{\text{cosec } A - \tan A}$$

62. (D) ATQ,

$$\sqrt{\frac{1}{\sin^2 A} + \frac{1}{\cos^2 A}}$$

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

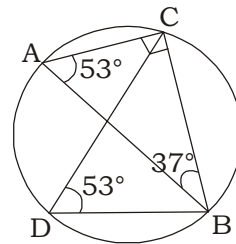
$$= \frac{1}{\sin A \cos A} = \frac{2}{2 \sin A \cos A} = \mathbf{2 \text{ cosec } 2A}$$

63. (B) ATQ,

$$1 + \sin A \cos A = \sin^2 A + \cos^2 A + \sin A \cos A$$

$$= \frac{(\sin^3 A - \cos^3 A)}{(\sin A - \cos A)}$$

64. (C) ATQ,



$$\angle CAB = 90^\circ - 37^\circ = 53^\circ$$

and $\angle CAB = \angle CDB$ (angle made by same chord)
 $\Rightarrow \angle CDB = \mathbf{53^\circ}$

65. (A) ATQ,

$$x = 17 + 12\sqrt{2}$$

Taking square root on both side.

$$\sqrt{x} = \sqrt{(8+9+3 \times 2\sqrt{2} \times 2)}$$

$$\sqrt{x} = (3 + 2\sqrt{2}) \quad \text{and}$$

$$\frac{1}{\sqrt{x}} = 3 - 2\sqrt{2}$$

$$\text{then, } \sqrt{x} + \frac{1}{\sqrt{x}} = 3 + 2\sqrt{2} + 3 - 2\sqrt{2} = \mathbf{6}$$

66. (B) ATQ,

$$\frac{1+x}{\sqrt{x} + \frac{1}{\sqrt{x}}} - \frac{\sqrt{x} + \frac{1}{\sqrt{x}}}{1+x} + \frac{1}{\sqrt{x}}$$

$$= \sqrt{x} - \frac{1}{\sqrt{x}} + \frac{1}{\sqrt{x}} = \mathbf{\sqrt{x}}$$

67. (B) ATQ,

$$\frac{1}{a^{m-n} + 1} + \frac{1}{a^{-(m-n)} + 1}$$

$$= \frac{1}{a^{m-n} + 1} + \frac{a^{m-n}}{1 + a^{m-n}} = \frac{1 + a^{m-n}}{1 + a^{m-n}} = \mathbf{1}$$

68. (B) ATQ,

$$\frac{p}{q} = \frac{a+4}{a-4}$$

Squaring on both sides

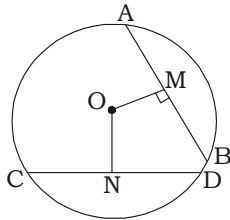
$$= \frac{p^2}{q^2} = \frac{(a+4)^2}{(a-4)^2}$$

Apply componendo and dividendo rule

$$\frac{p^2 + q^2}{p^2 - q^2} = \frac{(a+4)^2 + (a-4)^2}{(a+4)^2 - (a-4)^2} = \frac{2(a^2 + 4^2)}{4 \times a \times 4}$$

$$= \frac{\mathbf{a^2 + 16}}{\mathbf{8a}}$$

69. (B) ATQ,



$$\text{radius} = \sqrt{ON^2 + \left(\frac{CD}{2}\right)^2} = \sqrt{OM^2 + \left(\frac{AB}{2}\right)^2}$$

$$\Rightarrow ON^2 + 64 = 64 + (17)^2$$

Square root on both sides

$$\Rightarrow ON = 17, -17$$

Hence, $ON = 17 \text{ cm}$ (–ve value of side is neglected)

70. (C) ATQ,

$$\frac{h_1}{h_2} = \sqrt{\frac{\text{Area of 1st triangle}}{\text{Area 2nd triangle}}}$$

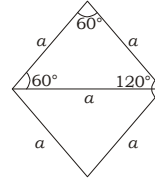
$$\Rightarrow \left(\frac{\sqrt[3]{7}}{\sqrt[3]{5}}\right)^2 = \frac{\text{Area of 1st triangle}}{\text{Area 2nd triangle}}$$

$$\Rightarrow \frac{(7)^{\frac{2}{3}}}{(5)^{\frac{2}{3}}} = \frac{\text{Area of 1st triangle}}{\text{Area 2nd triangle}}$$

71. (B) ATQ,

Angles are $60^\circ, 120^\circ, 60^\circ$ and 120° opposite angles are equal so it is a

parallelogram but these angles full fill the conditions of a rhombus.



Hence, it is a **rhombus**

72. (B) ATQ,

Required average

$$\frac{152 + 35 + 14 + 138 + 34 + 40 + 35 + 150 + 63 + 68 + 112 + 73 + 196}{13} = 85$$

73. (D) ATQ,

Required amount

$$= (152 + 35 + 14 + 138 + 34 + 40 + 35 + 150 + 63 + 68 + 112 + 73 + 196) \times 50$$

$$= 1110 \times 50 = \text{₹}55500$$

74. (A) See the solution of question no. 72

75. (C) ATQ,

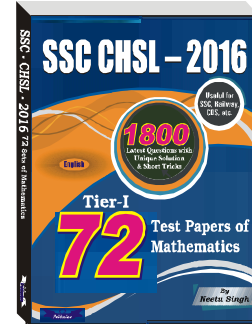
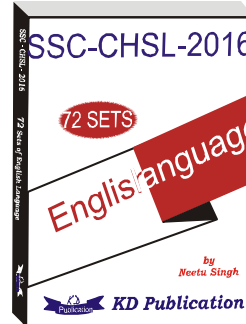
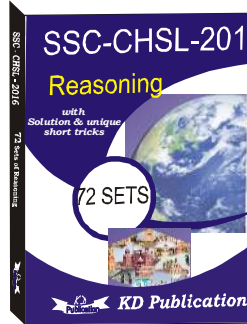
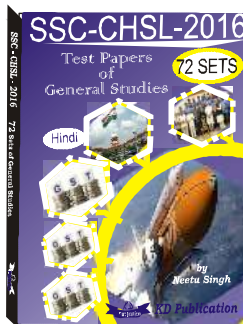
$$\text{Option A} = \frac{(138 - 34)}{138} \times 100 = 75.36\%$$

$$\text{Option B} = \frac{(150 - 63)}{150} \times 100 = 58\%$$

$$\text{Option C} = \frac{(138 - 14)}{138} \times 100 = 90\%$$

$$\text{Option D} = \frac{(196 - 73)}{196} \times 100 = 62.75\%$$

SSC (CHSL-2016) 72 Sets



MEANINGS IN ALPHABETICAL ORDER

Word	Meaning in English	Meaning in Hindi
Actuate	To move to action	चालू करना
Apocalypse	A great disaster	प्रलय
Bounder	A man of objectionable social behaviour	अशिष्ट
Catastrophe	A violent usually destructive natural event	प्रलय
Daffy	Crazy, foolish	ऊटपटांग
Daft	Silly, foolish	मूर्ख
Decimation	To cause great destruction	तबाही
Erudition	Extensive knowledge	व्यापक ज्ञान
Flash	To appear suddenly	अचानक प्रकट होना
Frippery	Something showy, frivolous or non-essential	तड़क-भड़क
Glinting	To look quickly or briefly	झलक
Holocaust	A sacrifice consumed by fire	पूर्णाहुति
Incite	To stir up, to urge on	उत्तेजित करना
Jinx	One that brings bad luck	मनहूस
Lout	To bow in respect	सम्मान में सिर झुकाना
Mediocre	Ordinary	साधारण
Miracle	An unusual or wonderful event	चमत्कार
Mysticism	A belief without sound basis	रहस्यवाद
Paraphrase	To say (something that someone else had said or written) using different words	अलग शब्दों में उसी बात को कहना
Rendition	A performance of something	प्रस्तुतीकरण
Shimmering	To shine with a soft tremulous light, glimmer	चमकना
Smudge	to soil or blus by rubbing	रगड़ के बिगाड़ना
Spur	A goad to action, stimulus	उकसाना
Stolid	Having or expressing little or no sensibility	संवेदनहीन

SSC MOCK TEST - 118 (ANSWER KEY)

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

78. (C) Change 'makes for a rich dessert' into 'makes the dessert rich'.
80. (C) For comparison we use 'than'.
81. (D) Accountable 'to' someone 'for' something.
85. (B) Charishma means 'Charm' (आकर्षण)
86. (A) Catalyst is a Chemical substance that increases or decreases a chemical reaction.

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