SSC MOCK TEST – 107 (SOLUTION)
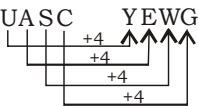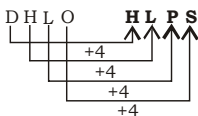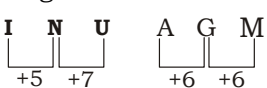
1. (B) As, Nurture and Neglect are antonyms. Similarly, **Denigrate** and Extol are antonyms.

2. (C) As, $(17)^2 - 17 = 272$
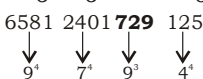   Similarly, $(19)^2 - 17 = $ **344**

3. (B) As,   U A S C   Y E W G   +4 +4 +4 +4

   Similarly,   D H L O   **H L P S**   +4 +4 +4 +4

4. (A) Except **Captain,** all others designation belong to Air force

5. (A)   **I N U**   A G M
   +5 +7   +6   +6

   M S Y   L R X
   +6 +6   +6   +6
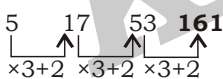
6. (C) 6581 2401 **729** 125
   9^4 7^4 9^3 4^3

7. (D) Aminate → Amindivi → **Amine** → Aminic → Aminoacid.
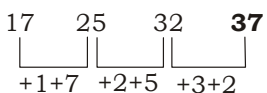
8. (B) T I D E A **T** I O B

9. (D)

10. (A)

11. (A) 5   17   53   **161**
   ×3+2 ×3+2 ×3+2

12. (B) AHE FMJ LSP **SZW**
   +5   +6   +7

13. (A) 17   25   32   **37**
   +1+7 +2+5 +3+2

14. (D) $18 \div 6 \times 7 - 5 + 2 = $ **18**

15. (B) ATQ,

   Age of Amit $= \dfrac{18}{3} = 6$ years

   Then, $18 + x = 2(6 + x)$
   $\Rightarrow 18 + x = 12 + 2x$
   $\Rightarrow x = 6$
   Hence, Required Age $= 18 + 6 = $ **24 years**

16. (C) $6 \times 5 = 3 \times 10$
   $2 \times 8 = 4 \times 4$
   $4 \times \mathbf{6} = 3 \times 8$
   $5 \times 9 = 3 \times 15$

17. (B) $6 \times \dfrac{1}{2} + 11 \times 2 = 25$

   $8 \times \dfrac{1}{2} + 6 \times 2 = 16$

   $12 \times \dfrac{1}{2} + 5 \times 2 = $ **16**
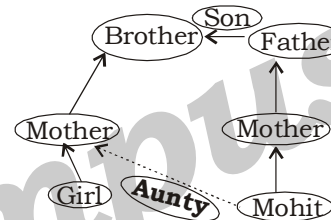
18. (C) $\sqrt{25} + \sqrt{81} + \sqrt{16} = 18$

   $\sqrt{36} + \sqrt{9} + \sqrt{49} = 16$
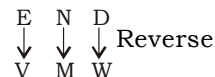
   $\sqrt{64} + \sqrt{4} + \sqrt{100} = $ **20**

19. (A)

20. (B)

21. (A)

22. (C) As,   S I T E   Reverse
   H R G V

   arrange in alphabetic order i.e. GHRV.

   Similarly,   E N D   Reverse
   V M W

   arrange in alphabetic order i.e. **MVW**

23. (D)

24. (D)

25. (C)

26. (A) It is called the roof of the world because they are at high altitude. The Pamir Mountains are a mountain range in Central Asia formed by the junction of the Himalayas with Tian Shan, Karakoram, Kunlun, and Hindu Kush ranges.

27. (A) The Ahmedabad city has been declared as a World Heritage City (WHC) at the 41st session of UNESCO's world heritage committee at Krakow in Poland. With this, the 606-year-old walled city of Ahmedabad, which was founded by Sultan Ahmed Shah, has become India's first World Heritage City. The city was also the center for India's non-violent freedom struggle led by Mahatma Gandhi. Now, Ahmedabad

will join the world heritage cities like Paris, Cairo and Edinburgh. Out of total 287 world heritage cities across the globe, there were only two cities in the Indian subcontinent- Bhaktpur in Nepal and Galle in Sri Lanka. The UNESCO tag will add immense value to Ahmedabad city which will also boost tourism.

28. (B) **Article 16(4)** the State is empowered to make any provisions for the reservation of appointments or posts in favour of any backward class of citizens in which, the opinion of the State, is not adequately represented in the services under the State. Via various amendments, the article 16 has been further tweaked and it is now a law that:
- State can make any provision for reservation in matters of promotion
- Filling backlog vacancies via reservation.

30. (D) The Karian Shola National Park (KSNP) is located at the southern end of the Western Ghats, in the Anaimalai Hills in Tamil Nadu. The park consists of areas of stunted, mossy rainforests known as shola forests interspersed with rolling montane grassland with towering rocky cliffs, making it a biologically unique ecosystem. It is home to about 560 to 680 species of animal such as Nilgiri tahr, Asian elephant, deer, wild boar, tiger, leopard,etc.

31. (C) The Union Finance Minister Arun Jaitley has launched an app – GST Rates Finder in New Delhi to verify the accurate tax rate on commodity and services under the Goods and Services Tax (GST) regime. Through this app, user can determine GST rate by entering the name of the commodity or service. The search result will list all the Goods and Services containing the name which was typed in the search box. A taxpayer can search for applicable CGST, SGST, UTGST rate and Compensation Cess on a supply. This mobile app can be downloaded on any smart phone and can work in offline mode, once downloaded. The application has

been launched on Android platform, and will soon be available on iOS platform. The Central Board of Excise and Customs (CBEC) have also provided a GST rate finder on its portal – cbec-gst.gov.in to help taxpayers know applicable GST rate on their supplies.

32. (A) Ethyne has a triple bond between the two carbon atoms. In the diagram each line represents one pair of shared electrons.

$$H-C\equiv C-H$$
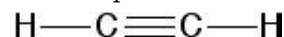
33. (C) Philosopher's wool is an oxide of zinc with a white powder used as a pigment, cosmetics, glass, inks and zinc ointment.

35. (A) Indian athletes, Mohammad Anas and Nirmala Sheoran have won the gold medal in the men's and women's 400m athletics event on the second day of the 2017 Asian Athletics Championships at Kalinga Stadium in Bhubaneswar, Odisha. In the 1500 m race, it was Chitra PU and A.K Saroj who bagged the other two gold medals for India. The other medal winners on the second day included Rajiv Arokia (silver), Jisna Mathew (bronze), Tejinder Pal Singh Toor (silver) and Dutee Chand (bronze).

37. (A) Pachpadra Lake is a salt lake near town of Pachpadra in Barmer District in Indian state of Rajasthan. Sodium chloride level of the lake is marked at 98% and it produces high quality salt.

38. (D) Party funding in Austria has been subject to public regulation and public subsidies since 1975. Party finance in Germany is the subject of statutory reports, in which up to 35 parties file annually with the administration of the German Parliament.

39. (A) Comma bacillus or Vibrio cholerae is a gram negative comma-shaped bacterium with a polar flagellum that causes cholera in humans.

40. (D) Article 1 of the Constitution declares that India shall be a Union of States. The States and the territories thereof shall be as specified in the First Schedule and the territory of India shall comprise the territories of the States, the Union territories specified in the First Schedule and such other territories may be acquired

41. (D) Sand in water has non-uniform composition that's why it is a heterogeneous mixture.

42. (C) Capital markets provide for the buying and selling of long term debt or equity backed securities. When they work well, the capital markets channel the wealth of savers to those who can put it to long term productive use, such as companies or governments making long term investments. Capital Markets allow businesses to raise long-term funds by providing a market for securities, both through debt and equity. Capital markets offer a whole range of complicated products which allow businesses and banks not just to raise capital but also to 'hedge' (protect) against risks.

43. () The global food fair "World Food India 2017" will be organized by the Union Food Processing ministry in New Delhi on November 3-5, 2017 to boost food sector. For the global food fair, the Union ministry of Food Processing has organized a roadshow in Chandigarh to provide a platform to Indian farmers and manufacturers to showcase their products and explore partnerships with foreign companies. More than 10 states and all leading giants from India and abroad in food processing, food technology, technology and equipment players, cold chains, and food retailers will be present at World Food India.

49. (B) Marginal product of an input (factor of production) is the extra output that can be produced by using one more unit of the input (for instance, the difference in output when a firm's labour usage is increased from five to six units), assuming that the quantities of no other inputs to production change. Marginal product, which occasionally goes by the alias marginal physical product (MPP) is the one of the two measures derived from the total product. The other is average product. Marginal product is directly proportional to total product.

47. (A) According to Huxley the protoplasm is the physical basis of life. Inside the cell wall of living cell the living substance is known as protoplasm. The protoplasm is a thick fluid or jelly-like substance.

48. (D) Ohm's Law deals with the relationship between voltage and current in an ideal conductor. This relationship states that:

The potential difference (voltage) across an ideal conductor is proportional to the current through it. The constant of proportionality is called the "resistance", R.

Ohm's Law is given by: V = I R

51. (A) ATQ,

A → 40 , B → 60, 120, +3, −2, 1

Required time = $\dfrac{60}{1}$ = **60** min.

52. (C) ATQ,

$$\frac{4}{3}\pi R^3 = \frac{4}{3}\pi\left[3^3 + 4^3 + 5^3\right]$$
$$\Rightarrow R^3 = 216$$
$$\Rightarrow R = 6$$

Hence, required radius = **6 cm**

53. (A) ATQ,

Ist discount = $20 + 10 - \dfrac{10 \times 20}{100}$

= 28

2nd Discount = $15 + 15 - \dfrac{15 \times 15}{100}$

= 27.75

Difference between S.P.

= $\dfrac{(28 - 27.75)}{100} \times 1000$ = **₹2.5**

54. (B) ATQ,

0.6cm → 10kg
then,

6cm → $\dfrac{10}{0.6} \times 6$ kg = **100 kg**

55. (A) ATQ,

Let C.P. of one book = ₹ 100
C.P. of 16 Book = 1600
Profit = ₹ 400
S.P. → 1600 + 400 = ₹ 2000

C.P. of 1 Book = $\dfrac{2400}{2000} \times 100$

= **₹120**

56. (C) ATQ,

(100 − 45 − 43)% = 156
⇒ 12% = 156

43% = $\dfrac{156}{12} \times 43$ = 559

∴ No. of men in marriage party = **559**

57. (B) ATQ,

Required Distance = $\dfrac{112 \times 5}{18} \times 36$

= **1120**

58. (D) ATQ,

$a + b = 5$

$b = (5 - a)$

then, $(a-3)^7 + (b-2)^7$

$= (a-3)^7 + (3-a)^7$

$= (a-3)^7 + (-1)^7(a-3)^7$

$= (a-3)^7 - (a-3)^7 = \mathbf{0}$

Alternate

$a + b = 5$

$a = 3$

$and\ b = 2$

Then, $(a-3)^7 + (b-2)^7$

$\Rightarrow (3-3)^7 + (2-2)^7$

$0 + 0 = 0$

59. (C) ATQ,

$x^2 + 1 = 3x$

$\Rightarrow x + \dfrac{1}{x} = 3$

Squaring on both sides,

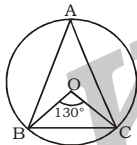$\Rightarrow x^2 + \dfrac{1}{x^2} = 3^2 - 2 = 7$

Squaring on both sides,

$\Rightarrow x^4 + \dfrac{1}{x^4} = 7^2 - 2 = \mathbf{47}$

60. (B) ATQ,

Area of equilateral triangle

$= \dfrac{median^2}{\sqrt{3}} = \dfrac{AD^2}{\sqrt{3}} = \dfrac{16\sqrt{3} \times 16\sqrt{3}}{\sqrt{3}}$

$= \mathbf{256\sqrt{3}\ cm^2}$

61. (A) ATQ,

$\angle BAC = \dfrac{\angle BOC}{2} = \dfrac{130°}{2} = \mathbf{65°}$

62. (C) ATQ,

$\cos(B + C - A) = \dfrac{\sqrt{3}}{2}$

$\therefore B + C - A = 30°$ ...(i)

$\sin(C + A - B) = 1$

$(C + A - B) = 90°$ ...(ii)

Adding equ. (i) and (ii),

$2C = 120°$
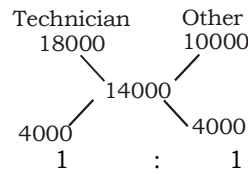
$C = \mathbf{60°}$

63. (D) ATQ,

$P^2 + \dfrac{1}{p^2} = 1$

Square root on both sides

$\Rightarrow p + \dfrac{1}{p} = \sqrt{3}$

cube on both sides

$P^3 + \dfrac{1}{p^3} = (\sqrt{3})^3 - 3\sqrt{3} = \mathbf{0}$

64. (C) ATQ,

```
Technician       Other
  18000          10000
         14000
  4000           4000
    1      :       1
```

1 unit = 7

2 units = 7 × 2 = 14

$\therefore$ Total number of workers = **14**

65. (A) ATQ,

$3a = 4b = 6c$

$a : b : c$

$4 : 3 : 2$

$a + b + c = 27\sqrt{29}$ (Given)
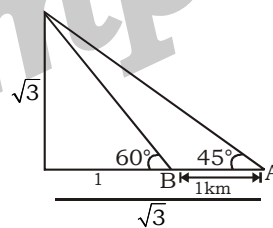
$\Rightarrow 4x + 3x + 2x = 27\sqrt{29}$

$\Rightarrow x = 3\sqrt{29}$

Now, $\sqrt{a^2 + b^2 + c^2}$

$= \sqrt{16x^2 + 9x^2 + 4x^2} = \sqrt{29(3\sqrt{29})^2}$

$= \mathbf{87}$

66. (D) ATQ,

$(\sqrt{3} - 1)$ units = 1 km

$\sqrt{3}$ units = $\dfrac{1}{\sqrt{3}-1} \times \sqrt{3}$

$= \dfrac{(\sqrt{3}+1)\sqrt{3}}{2} = \dfrac{(3+\sqrt{3})}{2}$ km

$\therefore$ Height of an Aeroplane $= \dfrac{\mathbf{(3+\sqrt{3})}}{\mathbf{2}}$ **km**

67. (D) ATQ,

$\sqrt[3]{x} + \sqrt[3]{z} - \sqrt[3]{y} = 0$

then,

$x + z - y = 3\sqrt[3]{-xyz}$

Taking cubes on both side.

$(x + z - y)^3 = \mathbf{-27xyz}$

68. (D) ATQ,

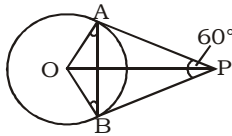Interior angle = 165°

$\therefore$ Exterior angle = 180° − 165°

$= 15°$

$\therefore$ Number of sides $= \dfrac{360}{15} = \mathbf{24}$

69. (B) ATQ,

$\angle APB = 60°$

$\therefore \angle AOB = 180° - 60°$

$\qquad = 120°$

In $\triangle AOB$,

$OA = OB$

$\therefore \angle OAB = \angle OBA$

$\Rightarrow \angle OAB + \angle OBA + \angle AOB = 180°$

$\Rightarrow 2\angle OAB = 180° - 120° = 60°$

$\angle OAB = \mathbf{30°}$

70. (B) ATQ,

Total no. of workers

$= 16000 \times \dfrac{105}{100} \times \dfrac{110}{100} \times \dfrac{120}{100} = \mathbf{22176}$

71. (C) ATQ,

$\sin x - \cos x = 1$

$\therefore x = 90°$

$\tan x + \cot x = \infty + 0 = \mathbf{\infty}$

72. (C) ATQ,

Required no. of Students

$= 21000 - 18000 = \mathbf{3000}$

73. (C) ATQ,

Required no. of Students

$= 27000 + 39000 + 39000 = \mathbf{105,000}$
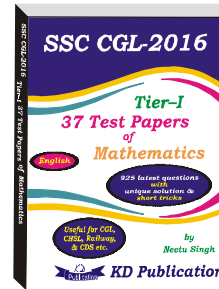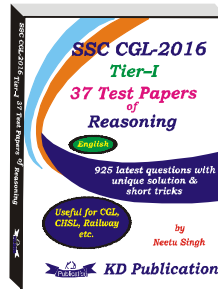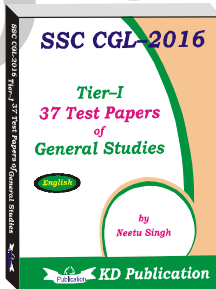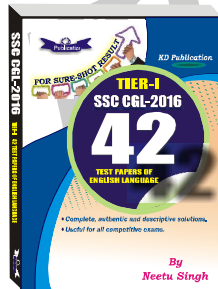
74. (D) ATQ,

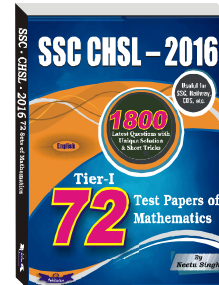Required Ratio $= (12 + 18) : (15 + 21)$

$\qquad = 30 : 36$

$\qquad = \mathbf{5 : 6}$

75. (B) ATQ,

Total Revenue $= 7000 \times 18000$

$\qquad = ₹ \mathbf{126,000,000}$
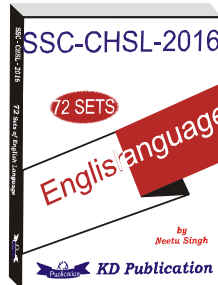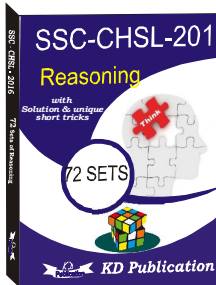
MEANINGS IN ALPHABETICAL ORDER

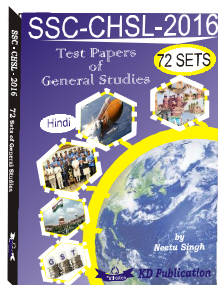| Word	Meaning in English	Meaning in Hindi
A Papal Decree	a paper issued by pope	पोप का आदेश
Anathematise	curse,condemn.	शाप देना
Beseech	to ask in a serious or emotional way	विनती करना
Blasphemy	the act of insulting or showing contempt for god	ईश्वर निन्दा
Construe	to understand the meaning of (a word, phrase, or sentence)	समझना, अर्थ लगाना
Convalesce	to recover health and strength gradually after sickness	फिर से अच्छा हो जाना
Conventicle	a secret religious meeting	गुप्त धार्मिक सभा
Coquette	a flirtatious woman	अपने सौंदर्य से पुरूषों को मोहित करने वाली स्त्री
Cynicism	beliefs that people are generally selfish and dishonest	मानवद्वेषवाद
Cynosure	a centre of attraction	आकर्षण का केंद्र
Entangle	to involve in a perplexing situation	उलझन में फँसना
Expedition	a journey	यात्रा
Fidelity	the quality of being faithful	निष्ठा, ईमानदारी
Flat-Hat	to fly low in an airplane in a reckless manner	लापरवाह तरीके से उड़ान भरना
Gaze	to look steadily and intently in admiration	एकटक देखना
Hypocrisy	a feigning to be what one is not	पाखंड
Idiosyncrasy	a peculiarity of constitution or temperament	अनोखापन, पागलपन
Intrigue	a secret and complex plot	षड़यंत्र
Lachrymose	given to tears, to weep	रोना, शोकपूर्ण
Meridian	any one of the lines that go from the north pole to the south pole on maps of the world	देशान्तर रेखा
Oracular	(of an utterance, advice) hard to interpret	रहस्यमय
Panorama	a clear complete view in every direction	विराटदृश्य
Plagiarize	to steal and pass off (the ideas or words of another) as one's own	साहित्यक चोरी करना
Poltroon	a spiritless coward	डरपोक
Privilege	an opportunity that is special and pleasant	विशेषाधिकार
Quagmire	a situation that is hard to deal with	कठिन परिस्थिति
Redoubt	a small building or area that gives protection to soldiers under attack	एक छोटी सी इमारत जो हमले के दौरान सैनिकों को सुरक्षा देती हो
Regress	return to a less developed state	पुन: कम विकसित अवस्था में पहुँचना
Valedictory	expressing a farewell	विदाई भाषण संबंधी

SSC MOCK TEST - 107 (ANSWER KEY)

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

76. (A) Add 'the' before 'judge'. When we talk about the personality present inside a person, we use article 'the' before the name of the personality.

77. (B) Omit 'First' from the 2nd part of the sentence.
'Word for word' means 'in exactly the same words'.
'Word by word' means 'one word at a time'
'Before' and 'first' together become superfluous.

78. (C) Remove 'he' from the 3rd part.
In a single sentence a noun and pronoun for the same noun cannot come together.

79. (D) 'Abate' means '(of something severe) become less intense'.Here 'fury' is being talked about.

80. (B) 'Reversal of fortune' means 'a change for the worse'.

81. (C) 'Take somebody on' means 'to enter into fight or argument'.
'Get on someone' means 'to pester someone'.
'Put something on' means 'to place clothing on one's body'.
'Put something off' means 'to postpone something'.

88. (A) 'Touch upon' is a phrasal verb which means 'to briefly talk about something'.

89. (B) Replace 'one quarter of an hour' with 'a quarter of an hour'.

90. (B) Change 'admonishing to him' into 'admonishing him'. Verb 'admonishing' does not take any preposition with it.

91. (B) Possessive adjective 'whose' is not used for non-living things.

92. (A) Replace 'since setting up' with 'since its inception'. Here 'Since its setting up' was needed by the posessive adjective 'its' was missing.

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