SSC MOCK TEST – 124 (SOLUTION)
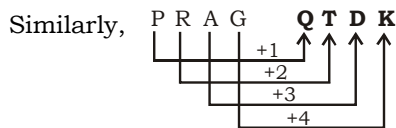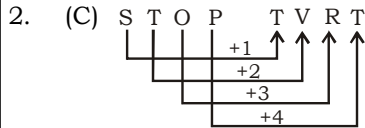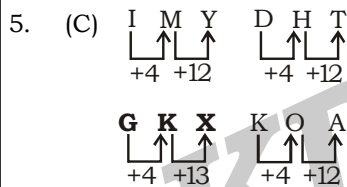
1. (B) Cow's child is known as Calf. Similarly, Sheep's child is known as **Lamb**.

2. (C)

S T O P   T V R T
+1, +2, +3, +4

Similarly, P R A G → **Q T D K**
+1, +2, +3, +4

3. (C) $562 \Rightarrow 5 \times 6 \times 2 \times \dfrac{3}{2} = 90$

Similarly, $663 \Rightarrow 6 \times 6 \times 3 \times \dfrac{3}{2} = \textbf{162}$

4. (D) Except **Chess**, all games belongs to physical work.

5. (C)

I M Y   D H T
+4 +12   +4 +12

G K X   K O A
+4 +13   +4 +12

6. (C) $120 - 1332 \Rightarrow [(11)^2 - 1] - [(11)^3 + 1]$

$168 - 2198 \Rightarrow [(13)^2 - 1] - [(13)^3 + 1]$

$197 - 2744 \Rightarrow [(14)^2 + 1] - [(14)^3]$

$288 - 4914 \Rightarrow [(17)^2 - 1] - [(17)^3 + 1]$

7. (A) Xanthic → Xenians → Xenous → Xylyls → Xyst.

8. (C) According to Suman,

the date will be 14th May and 15th May. but, according to her brother, the date will be 15th May and 16th May

Hence, Required date = **15th May**

9. (C) M > all other drinks

E > L only and B < R

Hence, correct sequence = M > R > B > E > L

Hence, 2nd most sugar content = **R**

10. (B) **TUNE**

11. (A) LOQ   SVX   ZCE   GJL   **NQS**
+7   +7   +7   +7

12. (D) 12   28   60   124   **252**
×2+2   ×2+4   ×2+4   ×2+4

13. (A) 5   13   40   104   **229**
$+2^3$ $+3^3$ $+4^3$ $+5^3$

14. (B)

15. (C) Change the Symbol, as per given details,

$3 - 12 + 16 \times 17 \div 1 = 261 \neq 163$

$5 \div 7 - 9 \times 8 + 2 = \dfrac{-485}{7} \neq 294$

$13 \div 13 - 13 + 13 \times 13 = 157$

$18 \div 16 \times 49 - 27 + 9 = \dfrac{297}{8} \neq 200$

16. (A) $9 \# 2 \# 5 \Rightarrow 529 = (23)^2$
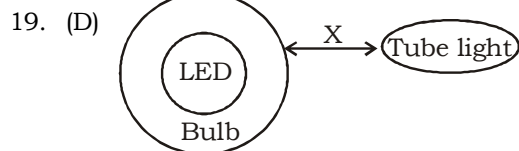
$1 \# 4 \# 8 \Rightarrow 841 = (29)^2$

$1 \# 6 \# 3 \Rightarrow 361 = \textbf{(19)}^2$

17. (D) $9^2 + 6^2 = 117$

$8^2 + 2^2 = 68$

$7^2 + 3^2 = \textbf{58}$

18. (B)

19. (D)

I True

II False

20. (A)   21. (D)   22. (B)   23. (B)

24. (B)   25. (A)

26. (C) **Sri Nagendra Singh** was an Indian lawyer and administrator who served as President of the International Court of Justice from 1985 to 1988.

• Justice **Madan Bhimrao Lokur** is a judge of the Supreme Court of India.

• Justice **Dipak Misra** is the Chief Justice of India. He is the 45th Chief Justice of India (CJI).

- **Gita Mittal** is the acting Chief Justice of the Delhi High Court.

27. (C) A **Gandharva Marriage** is one of the eight classical types of Hindu marriage. This ancient marriage tradition from the Indian subcontinent was based on mutual attraction between two people, with no rituals, witnesses or family participation. Any love affair with or without physical intimacy comes under this category for astrological purpose.

- **Brahma Vivah** : Marriage of a girl with the boy of same Varna with Vedic rites and rituals.

- **Daiva Vivah**: When father donated his daughter to a priest as a part of Dakshina.

- **Arsa Vivah**: A token bride-price of a Cow and a Bull was given.

28. (D) "An Inquiry into the Nature and Causes of the Wealth of Nations is the masterpiece of the Scottish economist and moral philosopher **Adam Smith.** It was first published in 1776.

29. (D) Kshitish Chandra Neogy also known as KC Neogy, was an Indian politician from West Bengal. He was a member of the Constituent Assembly of India, member of the first Cabinet of independent India and the chairman of the first Finance Commission of India.

- **Sardar Patel** was the first Deputy Prime Minister of India.

- **P.V. Rajamannar** was the first Indian to become Chief Justice of Madras High Court after independence from 1948 to 1961.

- **John Mathai** was the first Railway Minister of India.

30. (A) Mount Everest, also known in Nepal as **Sagarmatha** and in Tibet as Chomolungma, is Earth's highest mountain. It is located in the Mahalangur mountain range in Nepal and Tibet. Its peak is 8,848 meters (29,029 ft) above sea level. It is not the furthest summit from the center of the Earth.

31. (B) A crescograph is a device for measuring growth in plants. It was invented in the early 20th century by **Sir Jagdish Chandra Bose**. India, in 1958 issued a commemorative postage stamp in honour of the centennial of his birth.

34. (B) **Mulberry** is a plant that is grown for silkworm rearing. It is the exclusive food for the silkworm, which during its larval life is reared for silk production. Mulberry forms the basic food material for silkworms.

35. (D) **Ptyalin** is an enzyme found in the saliva that has the same properties as amylase. Ptyalin converts cooked starch into maltose. The main function of ptyalin is to catalyze the hydrolysis of starch into maltose and dextrin.

37. (A) **Article 15** of Constitution of India deals with Prohibition of discrimination on grounds of religion, race, caste, sex or place of birth.

38. (B) **Otorhinolaryngology** is a surgical subspecialty within medicine that deals with conditions of the **ear, nose, and throat (ENT)** and related structures of the head and neck.

39. (A) A unit of measurement for the total amount of ozone in the atmosphere above a point on the earth's surface, one **Dobson** unit being equivalent to a layer of pure ozone 0.01 mm thick at standard temperature and pressure.

40. (C) **Amoebic dysentery** or intestinal amoebiasis is a parasitic infection that is caused by the protozoa Entamoeba histolytica. This protozoan parasite is said to be the 3rd leading intestinal infection that can cause death.

42. (A) The **GDP** or gross domestic product of a country provides a measure of the monetary value of the goods and services it produces in a specific year.

43. (D) kinetics is the study of chemical processes and rates of reactions. This includes analysis of conditions that affect speed of a chemical reaction, understanding reaction mechanisms and transition states, and forming mathematical models to predict and describe a chemical reaction.

44. (A) **Hydroscope**: An optical device used for viewing objects far below the surface of water.

46. (C) **Helium** exists only as a gas except in extreme conditions. It is the second lightest element and is the second most abundant in the universe. Most helium was formed during the Big Bang, but new helium is created through nuclear fusion of hydrogen in stars.

47. (D) **Anti-Defection Law** is contained in the **Tenth Schedule** of the Constitution, which was introduced by the 52nd Amendment in 1985 during tenure of Rajiv Gandhi. Earlier, 10th schedule was related to association of Sikkim with India.

49. (A) The **Ashta Pradhan** was a council of eight ministers that administered the Maratha empire. The council was formed in 1674 by their king, **Chatrapati Shivaji Maharaj**.

50. (D) **Manushi Chhillar** is an Indian model and beauty pageant titleholder who was crowned **Miss World 2017**. She was previously crowned **Femina Miss India 2017** on 25 June 2017. Chhillar was born to Jat family in **Haryana**. Her father, Dr. Mitra Basu Chhillar, is a scientist at the Defence Research and Development Organisation.

51. (B) ATQ,
Factors of 2145 = 11 × 13 × 15
So, smallest number = **11**

52. (D) ATQ,
42 M = 56 B
⇒ 3M = 4B
Then, 56 × 20 = (8B + 20B) × D
⇒ D = **40 days**

53. (B) ATQ,

No. of spherical balls = $\dfrac{\dfrac{2}{3} \times \pi \times 8 \times 8 \times 8}{\dfrac{4}{3}\pi \times 1 \times 1 \times 1}$

= **256**

54. (A) ATQ,

Required discount = $\dfrac{(1380 - 950)}{1380} \times 100$

= **31.159%**

55. (C) ATQ,

Required ratio = $\dfrac{12 \times (100 - 25)}{100}$

: $\dfrac{14 \times (100 - 42.85)}{100}$: $\dfrac{15 \times (100 - 33.33)}{100}$

= $12 \times \dfrac{3}{4} : 14 \times \dfrac{4}{7} : 15 \times \dfrac{2}{3}$

= **9 : 8 : 10**

56. (D) ATQ,

Required Weight = $\dfrac{23 \times 3 + 27 \times 5}{8}$

= $\dfrac{204}{8}$ = **25.5kgs**

57. (B) ATQ,
Required profit

= $\dfrac{48 \times (60 + 10) - 60 \times 45}{60 \times 45} \times 100$ = **24.44%**

58. (B) ATQ,

Required percent = $\dfrac{(10 - 1)}{10} \times 100$ = **90%**

59. (C) ATQ,
Distance travelled by first runner till

8 : 30 am = $12 \times \dfrac{5}{2}$ = 30 kms

Hence, Required time = 8 : 30 + $\dfrac{30}{15 - 12}$

hours = **6 : 30pm**

60. (B) ATQ,

P × $\left(1 + \dfrac{12}{100}\right)^3$ = 7305.6256

⇒ P × $\dfrac{28}{25} \times \dfrac{28}{25} \times \dfrac{28}{25}$ = $\dfrac{73056256}{10000}$

⇒ P = **₹5200**

61. (A) ATQ,

$x + \dfrac{1}{x}$ = 7

⇒ $x - \dfrac{1}{x}$ = $\sqrt{(7)^2 - 4}$ = $\sqrt{45}$ = **3√5**

62. (C) ATQ,

$x = \dfrac{\sqrt{3} + \sqrt{2}}{\sqrt{3} - \sqrt{2}} = \dfrac{3 + 2 + 2\sqrt{6}}{3 - 2}$ = 5 + 2√6

and $\dfrac{1}{x}$ = 5 − 2√6

⇒ $x + \dfrac{1}{x}$ = 5 − 2√6 + 5 + 2√6 = 10

then, $x^2 + \dfrac{1}{x^2}$ = 98

Hence, $\dfrac{x^5 + x^4 + x^3 + x}{x^3} = x^2 + \dfrac{1}{x^2} + x + \dfrac{1}{x}$

= 98 + 10 = **108**

63. (C) ATQ,
$x = 7 - 2\sqrt{12}$

⇒ $\sqrt{x} = (\sqrt{3})^2 + (\sqrt{4})^2 - 2 \times \sqrt{3} \times \sqrt{4})^{\frac{1}{2}} = (2 - \sqrt{3})$

and $\dfrac{1}{\sqrt{x}} = \dfrac{1}{2 - \sqrt{3}}$ = 2 + √3

Hence, $\sqrt{x} + \dfrac{1}{\sqrt{x}}$ = 2 − √3 + 2 + √3 = **4**

64. (B) ATQ,

$27^x + 27^{\left(x - \frac{1}{3}\right)}$ = 26244

$\Rightarrow$ $27^x + \dfrac{27^x}{27^{\frac{1}{3}}} = 26244$

$\Rightarrow$ $27^x \left(1 + \dfrac{1}{3}\right) = 26244$

$\Rightarrow$ $27^x = 26244 \times \dfrac{3}{4} = 19683$

$\Rightarrow$ $27^x = 27^3$

On comparing both sides.

$\Rightarrow$ **$x = 3$**

65. (C) circum–radius of equilateral triangle =
2 × inradius
= 2 × 20 = **40cm**

66. (C) ATQ,
Centroid

67. (B) ATQ,
All the points like centriod, ortho centre, incentre and circum centre lie on one-points. Hence,

$\angle BPC = 90° + \dfrac{\angle A}{2} = $ **120°**

68. (A) ATQ,
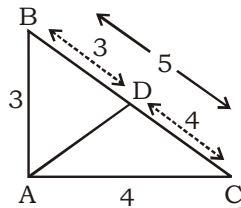
When two sides are in ratio 3 : 4, then triangle will be in triplet 3 : 4 : 5
then,

$\dfrac{AB}{AC} = \dfrac{BD}{BC} = \dfrac{3}{4}$

$\dfrac{x}{5-x} = \dfrac{3}{4}$

$\Rightarrow$ $x = (5 - x) \times \dfrac{3}{4}$

$4x = 15 - 3x$

$x = \dfrac{15}{7}$ K

But perpendicular from A = $\dfrac{\frac{1}{2} \times 3 \times 4}{5} = 2.4$K

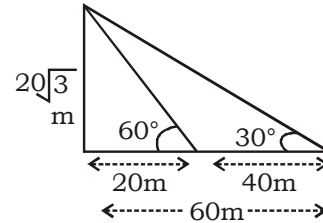Hence area of $\triangle ABD = \dfrac{1}{2} \times \dfrac{15}{7}$ K × 2.4K

$= \dfrac{1}{2} \times \dfrac{15}{7} \times \dfrac{24}{10} \times \dfrac{700}{12}$

= **150cm²**

[But $\left[\dfrac{1}{2} \times 3K \times 4K = 350\right]$

$\Rightarrow$ $K^2 = \dfrac{700}{12}$

69. (C) ATQ,

in 10 sec distance travelled by boat = 40m.

then, Required time = $\dfrac{60 \times 10}{40}$ = **15 sec**

70. (D) ATQ,

$\dfrac{\cosec\theta}{(\cosec\theta - 1)} + \dfrac{\cosec\theta}{(\cosec\theta + 1)}$

$= \dfrac{\cosec\theta\,(2\cosec\theta)}{(\cosec^2\theta - 1)} = \dfrac{2\cosec^2\theta}{\cot^2\theta}$

$= $ **$2\sec^2\theta$**

71. (D) ATQ,

$\sec\theta = \dfrac{1}{4x} + x$

$\Rightarrow$ $2\sec\theta = \dfrac{1}{2x} + 2x$

this is calculated by following equations

$\tan\theta + \sec\theta = 2x$ or $\dfrac{1}{2x}$

$\sec\theta - \tan\theta = \dfrac{1}{2x}$ or $2x$

72. (C) Required percentage = $\dfrac{(24 - 8)}{8} \times 100$

= **200%**

73. (A) Required difference = $\dfrac{1875 \times (24 - 16)}{100}$

= **150**

74. (D) The sectorial Angle = $\dfrac{360 \times 32}{100}$ = **115.2°**

75. (A) Here one number is required which can be divided into such%.

MEANINGS IN ALPHABETICAL ORDER

Word	Meaning in English	Meaning in Hindi
Astonish	To strike with sudden wonder or surprise	चौंकाना
Blender	An appliance used to chop, mix, blend	मिक्सर
Droll	Antic	विलक्षण
Empress	Wife or widow of an emperor	शासक की बीवी
Fuzz	To become unclear, blurred	अस्पष्ट होना
Gaudy	Sourly, too bright and showy	भड़कीला
Grotesque	Extremely different from what is expected	विकृत
Hallowed	Holy, sacred	पवित्र
Kinky	(of hair) closely twisted or curled	घुंघराले बाल
Outlandish	Very strange or unusual	विचित्र, बाहरी
Pious	Highly devoted to divine worship	अत्यंत धार्मिक
Profane	To treat with great disrespect	अभद्र व्यवहार
Refined	Free from impurities	शुद्ध
Scum	An unwanted layer (film) of impurities on	तलछट
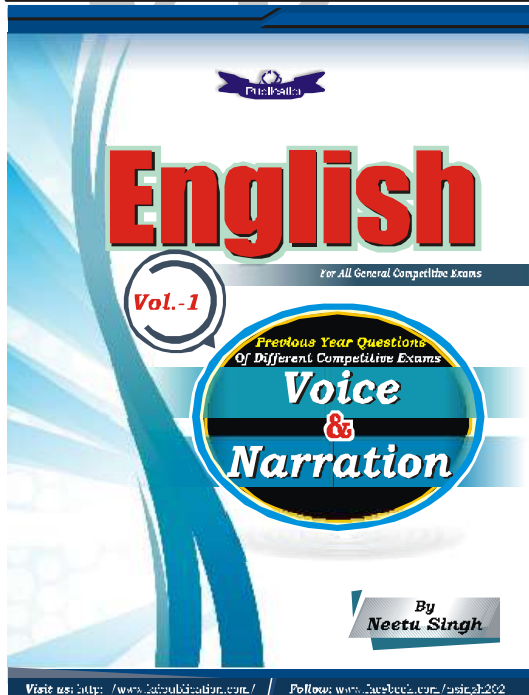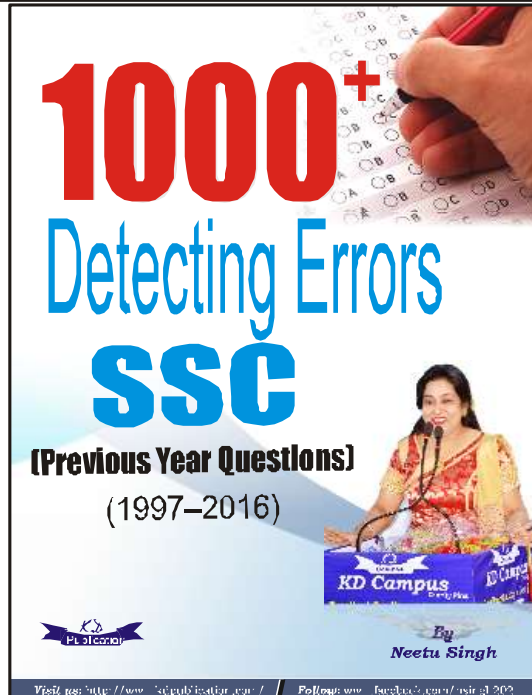
SSC MOCK TEST - 124 (ANSWER KEY)

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

76. (A) Replace 'were' with 'was' because the main subject 'luggage' is an uncountable noun and it takes singular verb.

77. (D) 'Many a' is used with 'singular noun'.

82. (A) In this sentence 'who are' is not needed.

83. (B) Replace 'didn't he' with 'doesn't he' because the sentence and the question tag must be in same tense.

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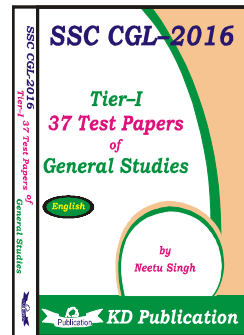
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