SSC MOCK TEST – 131 (SOLUTION)

1. (A) Lawyer is related to court. Similarly, **Teacher** is related to school.

2. (C)
$$\underset{-3}{\underline{K\ M\ O} \quad\quad \underline{H\ J\ L}}$$
Similarly,
$$\underset{-3}{\underline{E\ G\ I} \quad\quad \mathbf{B\ D\ F}}$$

3. (C) $5 \times (-1) \times 4 = -20$
Similarly,
$-8 \times (-1) \times 4 = \mathbf{32}$

4. (C) Except **Plate**, other are used to cut the food.

5. (D)
$$\underset{+4\ +4}{A\ E\ I} \quad \underset{+4\ +4}{J\ N\ R} \quad \underset{+4\ +4}{S\ W\ A} \quad \underset{+4\ +3}{\mathbf{F\ J\ M}}$$

6. (B) Except **421**, other are square number.

7. (D) Difference between both dates,
= 21+30+31+30+31+31+30+31+15
= 250
= 35 weeks + 5 days
Hence, required day
  = Friday + 5 days
  = **Wednesday**

8. (D) **$210 \neq 80 + 90 + 50$**
or **$210 \neq 80 + 90 + 30$**

9. (D) **CARES**

10. (D)
$$\underset{-1}{\underline{M\ I\ G\ R\ N\ T} \quad \underline{L\ H\ F\ Q\ Z\ M\ S}}$$
Similarly,
$$\underset{-1}{\underline{L\ O\ G\ I\ T\ E\ C\ H} \quad \mathbf{K\ N\ F\ H\ S\ D\ B\ G}}$$

11. (C) **Senile** → 3 Consonant.

12. (A) **XXXXXXO**

13. (D)
$$\frac{3}{5} \quad \frac{7}{5} \quad \frac{11}{5} \quad \mathbf{\frac{15}{5}} \quad \frac{19}{5} \quad \frac{23}{5}$$
$$+\frac{4}{5} \quad +\frac{4}{5} \quad +\frac{4}{5} \quad +\frac{4}{5} \quad +\frac{4}{5}$$

14. (B) $36 \times 4 \div 25 + 6 - 130$
Change the symbol, as per given details,
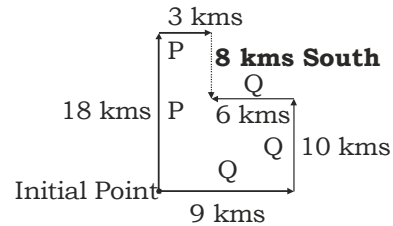$36 \div 4 - 25 \times 6 + 130 = \mathbf{-11}$

15. (C) $\dfrac{11+27}{2} = 19$

$\dfrac{12+40}{2} = 26$

$\dfrac{40+50}{2} = \mathbf{45}$

16. (A)

17. (D) **I. True   II. False**

18. (B) $21 + 95 = 116$
$87 + 11 = 98$
$90 + 45 = \mathbf{135}$

19. (D)   20. (D)   21. (B)   22.(C)

23. (D)   24. (C)   25. (D)

26. (D) Average Selling price (ASP) of goods or commodities is the average price at which a particular product or commodity is sold across channels or markets.

27. (B) As per keynes theory of employment, effective demand signifies the money spent on the consumption of goods and services and on investment. The total expenditure is equal to the national income, which is equivalant to the national output. Therefore, effective demand is equal to total expenditure as well as national income and national output.

28. (D) "Protection of wild animals and birds is listed in concurrent list given in the 7th Schedule in the constitution of India.

29. (D) The Lok Sabha Secretariate comes under direct supervision of speaker of Lok sabha.

30. (A) Madurai was the capital of Pandyas emperor.

31. (A) The Bijapur school of painting developed independently during the Mugal period.

32. (C) According to Government of India Act-1858, end the Rule of east india company.

33. (D) Hiranya, It was probably a tax paid in cash.

34. (D) The formation of Sikkim-15 May 1973.
- The formation of Mizoram-19 febuary 1987.
- The formation of Arunachal Pradesh-febuary 1987
- The formation Goa-29May, 1987.

35. (D) Jharkhand does not share boundary. With Madhya Pradesh.

36. (C) 'Mediterran sea forests are found in the areas between 30° to 45° latitudes in the western part of continents.

37. (B) The best conductor of heat is Mercury.

38. (B) When a barometer reading suddenly recedes it indicates that climate will be externely stormy.

39. (B) Graphite is a good conductor of electricity because of the its molecules of carbon bonding is tightly.

40. (B) Sugar cane is carbohydrate.

41. (B) The chemical name of Baking soda is Sodium bicarbonate.

42. (D) Silk fiber chemically is cellulose.

43. (C) Penicillin is extracted form of fungus.

44. (A) The cross selction of stem of tree has fifty rings. It means the age of the tree is 50 years.

45. (A) Our bones and teeth are made of Tricalcium phosphate.

46. (A) Kindney disease in mainly is caused by the pollutant of cadmium.

47. (C) A raere and endangered animal in silent-valley is lion-tailed macaque.

48. (B) Typhoid fever is caused by Bacteria. Typhoid, is a bacterial infection due to Salmonella typhi. Almorth Edward wright developed the first effective typhoid vaccinne. The test name is WIDAL test.

49. (D) Saur Sujal Yojana started with Chattishgarah State on 1st November 2016. Under this scheme, solar powered irrigation pumps of 3 HP and 5 HP capacity worth Rs 3.5 Lakh and 4.5 Lakh respectively would be distributed among the farmers by March 31,2019. The benificiaries would get the pumps at the subsidised price.

50. (A) Ministry of Railway, Shri Suresh Prabhakar Prabhu unveiled Mission 41K during the Round table Discussion with External stakeholders on energy Initiatives of indian Railways. Ministry of Railway has come up with Mission 41k to save Rs 41000 crore in the next decade in Railways energy cost.

51. (B) ATQ,

$$\frac{60}{x+y} + \frac{20}{x-y} = 4 \quad \left[\frac{1}{x+y} = u, \frac{1}{x-y} = v\right]$$

$\Rightarrow$ 60 u + 20 v = 4-------(i)   and,

$$\frac{40}{x+y} + \frac{40}{x-y} = 6$$

$\Rightarrow$ 40 u + 40 v = 6 -------(ii)
from equation (i) and (ii),

$u = \dfrac{1}{40}$ and $v = \dfrac{1}{8}$

then $x + y$ = 40 -----(iii)   and

$x - y$ = 8 ------(iv),
from equation (iii) and (iv),
y = 16 and x = 24
Hence, the speed of stream = **16 kmph**

52. (B) ATQ,

New selling price = $\dfrac{3800}{76} \times 130$ = **₹6500**

53. (C) ATQ,

Required distance = $2 \times \dfrac{22}{7} \times 28 \times 10$

= **1760 cm**

54. (B) ATQ,
Total surface area

= $2 \times \dfrac{22}{7} \times \dfrac{14}{2} \times \dfrac{14}{2} + 2 \times \dfrac{22}{7} \times \dfrac{14}{2} \times 15$

= $308 + 660$ = **968cm²**

55. (C) ATQ,

Required discount = $56 + 14 - \dfrac{56 \times 14}{100}$

= **62.16%**
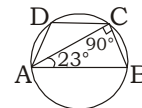
56. (A) ATQ,
$x = 2 - y$
$x^2 = 3 + y^2$
$\Rightarrow (2 - y)^2 = 3 + y^2$
$\Rightarrow 4 + y^2 - 4y = 3 + y^2$
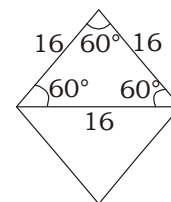$\Rightarrow y = \dfrac{1}{4} \Rightarrow x = 2 - \dfrac{1}{4} = \dfrac{7}{4}$

Hence $xy = \dfrac{1}{4} \times \dfrac{7}{4} = \dfrac{\mathbf{7}}{\mathbf{16}}$

57. (D) ATQ,

$\angle$ ADC = 180° − (90° − 23°) = **113°**

58. (B) ATQ,

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

$\Rightarrow d_1 = 16\sqrt{3}$
Hence, Area of equilateral triangle

= $\dfrac{\sqrt{3}}{4} \times 16\sqrt{3} \times 16\sqrt{3}$ = **192$\sqrt{3}$ cm²**

59. (B) ATQ,

$$236.544 = P \times \left(\frac{8}{100}\right)^2 \left(\frac{308}{100}\right)$$

P = 12000

Hence, Required amount = **₹12000**

60. (C) ATQ,

$$\frac{\cos A + \cos B}{\sin A + \sin B} = \frac{2\cos\left(\frac{A+B}{2}\right)\cos\left(\frac{A-B}{2}\right)}{2\sin\left(\frac{A+B}{2}\right)\cos\left(\frac{A-B}{2}\right)}$$

$$= \frac{\cos\left(\frac{A+B}{2}\right)}{\sin\frac{A+B}{2}} = \mathbf{cot}\left(\frac{\mathbf{A+B}}{\mathbf{2}}\right)$$

61. (B) ATQ,

$$\frac{\frac{\sin^2 A}{\cos^2 A} - \sin^2 A}{\sec^2 A} = \frac{\sin^2 A\,(\sec^2 A - 1)}{\sec^2 A}$$

$$= \frac{\sin^2 A\,\tan^2 A}{\sec^2 A} = \mathbf{sin^4 A}$$

62. (B) ATQ,

Required Quantity $= \dfrac{112}{8} \times (31 + 28)$
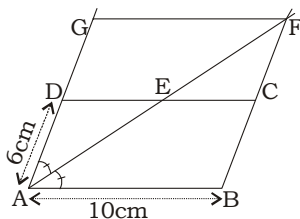
= **826 kgs**

63. (A) ATQ,

Let the initial price = $8x$

then, $\dfrac{180}{9x} - \dfrac{180}{8x} = 5$

$\dfrac{180 \times 1}{72x} = 5$

$\Rightarrow x = 0.5$

Hence, Required price = 0.5 × 8 = **₹4**

64. (A) ATQ,

Produce AD to G such that AG||BF and GF || CD

then, In $\triangle$AGF and $\triangle$ABF

AF is common side and

$\angle$GAF = $\angle$BAF

then, $\triangle$AGF $\cong$ $\triangle$ABF

now , AG = AB

$\Rightarrow$ AG = CD + DG = 10

$\Rightarrow$ DG = CF = 10 – 6 = 4   [$\therefore$AG = BF]

Hence, CF = **4 cm**

65. (B) ATQ,

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

Squaring on both sides

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

Apply componendo and dividendo rule

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

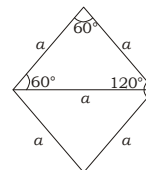$$= \quad \frac{\mathbf{a^2 + 16}}{\mathbf{8a}}$$

66. (C) ATQ,

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

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

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

67. (B) ATQ,

Angles are 60°, 120°, 60° and 120° opposite angles are equal so it is a parallelogram but these angles fulfill the conditions of a rhombus.

Hence, it is a **rhombus**

68. (C) ATQ,

	A	B
efficient	13	10
time	10	13
	20	26

Hence, Required days = **20 days**

69. (C) ATQ,

sin $(4x – y)$ = 1 = sin 90°

$\Rightarrow$ $4x - y = 90°$ ------(i)   and

$\cos(2x + y) = \dfrac{1}{2} = \cos 60°$

$\Rightarrow$ $2x + y = 60°$ -------(ii)
from equation (i) and (ii),
$x = 25°$ $y = 10°$
then, $\tan(25° + 2 × 10°) = \tan 45° = \mathbf{1}$

70. (C) ATQ,
Let the larger diagonal = $100x$
then, square of   :   area of rhombus
larger diagonal

$(100\ x)^2$: $\dfrac{100x × 35x}{2}$

40   :   7

Hence, Ratio of those = **40 : 7**

71. (B) ATQ,

Required value = $\dfrac{90 × 100}{(100 - 25)} = \mathbf{120}$

72. (B) ATQ,
Total present age = 30 × 3 + 6 × 3
= 108 years
then, Required age = 108 – (46 × 2 + 3 × 2)
= **10 years**

73. (B) ATQ,

Required percent = $\dfrac{(750 - 500)}{500} × 100 = \mathbf{50}$

74. (D) ATQ,

Required percent = $\dfrac{(600 - 500)}{600} × 100$
= **16.66**

75. (A) ATQ,

Required Number = $\dfrac{(410 + 490 + 300)}{3}$

MEANINGS IN ALPHABETICAL ORDER

Word	Meaning in English	Meaning in Hindi
Ambushed	A surprise attack by people lying in wait in a concealed position	घात लगाना
Camouflage	The disguising especially of military equipment or installations with paint, nets, or foliage, changing of colour of an animal to blend with the surroundings	छलवारण
Diatribe	A forceful and bitter verbal attack against someone or something	कठोर मौखिक प्रहार
Envisage	Contemplate or conceive of as a possibility, foresee	अनुमान होना, भांप जाना
Exaggerate	Represent (something) as being larger, better, or worse than it really is	बढ़ा-चढ़ा कर पेश करना
Exposed	Make (something) visible by uncovering it	उजागर करना
Grimiest	Covered with or characterized by dirt	भयावह, गंदा
Internecine	Mutually destructive	परस्पर-विध्वंसी
Lurk	Be or remain hidden so as to wait in ambush for someone or something	छुप कर घात लगाकर इंतजार करना
Malignant	Evil in nature or effect, malevolent	घातक
Pervert	Distort or corrupt the original course, meaning, or state of (something)	विकृत करना
Resort	One that affords aid or refuge, recourse to	सहारा लेना, रास्ता अपनाना
Speculate	Form a theory or conjecture about a subject without firm evidence	अनुमान लगाना
Sweeping	Wide in range or effect	व्यापक
Toxicity	The quality of being toxic or poisonous	विषैलापन
Traduce	Speak badly of (someone) so as to damage their reputation	बदनाम करना

SSC MOCK TEST - 131 (ANSWER KEY)

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

84. (D) 'affort to see' is the correct option. This means they cannot bear the fact that their children waste their capabilities.

85. (C) 'Resort to' means to take the recourse. (रास्ता अपनाना)

88. (A) 'Need of the hour' is a phrase, so we use as it is given.

92. (B) The correct formula is-
If + had + V_3, Sub + would + have + V_3
Hence replace 'will' with 'would'.

93. (A) Sentence should be in Simple Past Tense and in Active Voice. Hence replace 'was being' with 'was'.

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