SSC MOCK TEST – 128 (SOLUTION)

1. (D) Sum and Addition are synonyms. Similarly, Product and **Multiplication** are Synonyms.

2. (B) FHK   CEH
   –3
   Similarly, OQT   **LNQ**
   –3

3. (B) 1001 + 100 = 1101
   Similarly, 111 + 100 = **211**

4. (B) Except **Shirt**, others are worn in Lower part of body.

5. (C) E J O   B G L
   +5 +5   +5 +5

   L Q U   S X C
   +5 +4   +5 +5

6. (C) **175** is an odd number.

7. (A) ATQ,
   Difference between both dates
   = 4 + 31 + 30 + 31 + 31 + 30 + 30 = 187
   = 26 weeks + 5 days
   Hence, Required days = Wednesday + 5 days
   = **Monday**

8. (B) Possible sum of these boxes = 110, 120, 130, 140, 150, 180, 190, 200, 210 and 240 kgs.
   Hence, **170 kgs** is not the sum of any combination of these boxes.

9. (D) **T E A R S**

10. (D) F R I S K E D   I T L U N G G
    +3
    +2
    +3
    +2
    +3
    +2
    +3

    Similarly, S H I N E   **V J L P H**
    +3
    +2
    +3
    +2
    +3

11. (C)
    win   note   grain   broken   **banking**
    ↓   ↓   ↓   ↓   ↓
    3 letters 4 letters 5 letters 6 letters 7 letters

12. (C) K*l*MnO   qRsTu   WxYzA   **cDeFg**
    +2   +2   +2

13. (C) 0   4   10   **18**   28   40
    +4   +6   +8   +10   +12

14. (D) 40 + 4 ÷ 625 × 5 – 10
    Change the symbol, as per given details,
    40 × 4 – 625 ÷ 5 + 10 = **45**

15. (B) [(4 + 5) – (1 + 1)] × 3 = 21
    [(5 + 9) – (3 + 4)] × 3 = 21
    [(5 + 5) – 4] × 3 = **18**

16. (C)
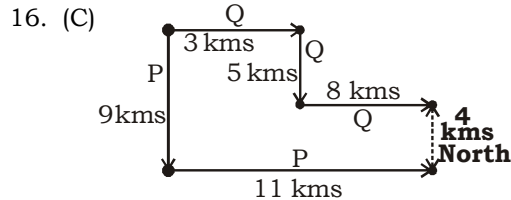
17. (A) I. True
    II. True

18. (D)   19. (B)   20. (D)   21. (A)
22. (D)   23. (A)   24. (D)   25. (A)

26. (B) The **Onam Boat Race** the oldest river boat fiesta in **Kerala**, the south western State of India is held during Onam (August–September). It takes place at Aranmula, near a Hindu temple dedicated to Lord Krishna and Arjuna.

27. (C) A programming language is a special language that programmers use to develop software programs, scripts, or other sets of instructions for computers to execute. Some programming languages are:
    C, C #, C++, D, Java, Tcl etc.
    Frontline: The definition of frontline is a person or thing that is a part of a leading position.

28. (A) Calcium oxide (CaO), commonly known as **quicklime** or **burnt lime** is a widely used chemical compound. Commonly used drying agents in organic laboratories are Calcium Chloride ($CaCl^2$), Sodium Sulphate (Na_2SO_4) Calcium Sulphate ($CaSO_4$, also known as Sulphate) and Magnesium Sulfate ($MgSO_4$), all in their anhydrous form.

29. (C) The trapping of the sun's warmth in a planet's lower atmosphere is due to the greater transparency of the atmosphere to visible radiation from the sun than to infrared radiation emitted from the planet's surface.

30. (A) The **pulmonary veins** are the veins that transfer oxygenated blood from the lungs

to the heart. The largest pulmonary veins are the four main pulmonary veins, two from each lung that drain into the left atrium of the heart. The pulmonary veins are part of the pulmonary circulation.

31. (A) **Relief Maps** present a **dramatic visual, natural features and tactile** representation of a desired geographical area.Sometimes referred to as three-dimensional maps, most incorporate shaded relief to enhance topographic diversity. States, continents and countries,

32. (B) A barrier to trade is a government-imposed restraint on the flow of international goods or services. The most common barrier to trade is a tariff—**a tax on imports**. Tariffs raise the price of imported goods relative to domestic goods (goods produced at home).

33. (D) Factors of production are an economic term that describes the inputs that are used in the production of goods or services in order to make an economic profit. The factors of production include **land, labour, capital and entrepreneurship.**

35. (C) A writ is a formal written order issued by a judicial or administrative body to do a specific act. This body is generally a Court.There are five types of Writs - **Habeas Corpus, Mandamus, Prohibition, Certiorari and Quo warranto.**

37. (B) Latitude indicates the location of a place on Earth north or south of the Equator. Latitude is an angular measurement in degrees (marked with °) ranging from 0° at the Equator to 90° at the poles **(90° N for the North Pole or 90° S for the South Pole)**.

38. (A) Infiltration is the process by which **water on the ground surface enters the soil**. Infiltration rate in soil science is a measure of the rate at which soil is able to absorb rainfall or irrigation. It is measured in **inches per hour** or millimeters per hour.

41. (A) The Civil Rights Act of 1964, which ended segregation in public places and banned employment discrimination on the basis of **race, colour, religion, sex or national origin**, is considered one of the crowning legislative achievements of the civil rights movement.

42. (C) Swadeshi Movement' was complementary to '**Boycott Movement'**. In 1909, the movement had spread across the country and people had started anti-partition and anti-colonial movements. In Andhra Pradesh, the Swadeshi movement was also known as **Vandemataram movement**.

44. (B) **Uma Shankar** has been appointed as the new **Executive Director of Reserve Bank of India (RBI**).She has been elevated after **Meena Hemchandra** the executive director in charge of the central bank's supervision department retired recently.

45. (B) Muhammad bin Tughluq (also Prince **Fakhr Malik**; died 20 March 1351) was the Sultan of Delhi from 1325 to 1351. In an effort to adapt to his growing empire, he attempted to shift his capital from **Delhi to Daulatabad**, which was supposed to be a more central location, but it was a disastrous decision and was costly.

46. (B) The revamping of the "**Khelo India**" programme is a major initiative that has just been announced. In the past, there has not been a scheme on this scale taken up by any previous administration to structurally focus on sport in India. With the revamp of "Khelo India", sport is set to go mainstream.As per the revamped plan, the estimated outlay for the period of 2017-18 to 2019-20 **is Rs 1756 crore.**

47. (D) The kilowatt-hour is a unit of **energy** equivalent to **one kilowatt** (1 kW) of power expended for one hour (1 h) of time. The kilowatt-hour is not a standard unit in any formal system, but it is commonly used in electrical applications.

48. **(B)** Soaps are Sodium or Potassium salts of some long chain **carboxylic acids**. Sodium salts of **fatty acids** are known as **hard soaps** and potassium salts of fatty acids are known as **soft soaps**.

50. **(B)** **Raman effect is**, appearance of additional lines in the spectrum of monochromatic light that has been scattered by a transparent material medium. The effect was discovered by **C. V. Raman in 1928**.

51. **(C)** ATQ,
$640 = 2 × 2 × 2 × 2 × 2 × 2 × 2 × 5$
$560 = 2 × 2 × 2 × 2 × 7 × 5$
Hence, LCM of 640 and 560
$= 2 × 2 × 2 × 2 × 2 × 2 × 2 × 7 × 5 = $ **4480**

52. **(A)** ATQ,

$A + B \rightarrow \dfrac{37}{4}$ ⟩ 74 ⟨ 8
$A \rightarrow 74$ ⟩ 74 ⟨ 1

Hence, Required days $= \dfrac{74}{(8-1)} = $ **$10\dfrac{4}{7}$ days**

53. **(B)** ATQ,
$4\pi r^2 = 616$

$\Rightarrow r^2 = \dfrac{616 × 7}{4 × 22} = 49$

$\Rightarrow r = 7$
Hence, Required diameter $= 7 × 2 = $ **14 cm**

54. **(A)** ATQ,
Total C.P $= 150 × 2 + 500 × 4 = 2300$

Total S.P $= 2 × \dfrac{150 × 80}{100} + 4 × \dfrac{500 × 75}{100}$
$= 240 + 1500 = 1740$
Then, Effective discount

$= \dfrac{(2300 - 1740)}{2300} × 100 = $ **24.35%**

55. **(C)** ATQ,

A	:	B	:	C
9	:	16		
		8	:	13
9	:	16	:	26

Hence, C : A = **26 : 9**

56. **(B)** ATQ,
$x + (x-2) + (x-4) + (x-6) + (x-8) + (x-10)$
$= 84 × 6$
$\Rightarrow 6x = 504 + 30 = 534$
$\Rightarrow x = 89$
Hence, largest number = **89**

57. **(B)** ATQ,

C.P of box $= \dfrac{1690 × 100}{130} = 1300$

Required profit $= \dfrac{(2210 - 1300)}{1300} × 100$
$= $ **70%**

58. **(A)** ATQ,

Required percent $= \dfrac{(100 - 35)}{35} × 100$
$= $ **185.7%**

59. **(C)** ATQ,
Let the Required time $= x$
then, $30x - 18x = 3.6$
$\Rightarrow x = 0.3$ hour
Hence, Required distance $= 0.3 × 18$
$= $ **5.4kms**

60. **(A)** ATQ,

Amount in 1st year $= \dfrac{x × 8 × 1}{100} + x = 1.08x$

Amount in 2nd year

$= \dfrac{(1.08x) × 12 × 1}{100} + 1.08x = 1.2096x$

then, $1.2096x = 10886.4$

$\Rightarrow x = \dfrac{10886.4}{1.2096} = $ **₹9000**

61. **(B)** ATQ,

$\dfrac{\left[6\left(\dfrac{2x}{7} - \dfrac{3}{2}\right)\right]}{4} + \dfrac{9}{2} = \dfrac{37}{7}$

$\Rightarrow \dfrac{3}{2}\left(\dfrac{2x}{7} - \dfrac{3}{2}\right) + \dfrac{9}{2} = \dfrac{37}{7}$

$\Rightarrow \dfrac{6x}{14} - \dfrac{9}{4} + \dfrac{9}{2} = \dfrac{37}{7}$

$\dfrac{12x}{28} + \dfrac{63}{28} = \dfrac{148}{28}$

$\Rightarrow 12x + 63 = 148$

$\Rightarrow x = \dfrac{85}{12}$

62. **(A)** ATQ,
$a^3 - b^3 = (a - b)((a - b)^2 + 3ab)$
$= 10(100 + 3(-24)]$
$= $ **280**

63. **(C)** ATQ,

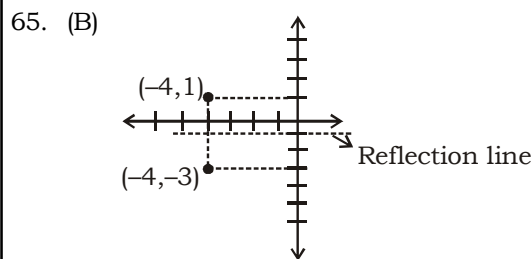$2x + \dfrac{4}{x} = \dfrac{33}{5}$

$\Rightarrow 10x^2 + 20 - 33x = 0$
$\Rightarrow 10x^2 - 25x - 8x + 20 = 0$
$\Rightarrow 5x(2x - 5) - 4(2x - 5) = 0$
$\Rightarrow (5x - 4)(2x - 5) = 0$

$\Rightarrow \quad x = \dfrac{\mathbf{4}}{\mathbf{5}}, \dfrac{5}{2}$

64. (C) ATQ,
$a + 10d - a - 55d = -25 - 200$

$\Rightarrow \quad 45d = 225$

$\Rightarrow \quad d = 5$
then, $a = -75$
Hence, $T_{100} = a + 99d = -75 + 99 \times 5$
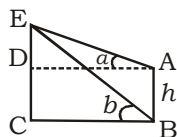$= \mathbf{420}$

65. (B)

Hence, Required points = **(–4, 1)**

66. (B) ATQ,
$(k - 2)^2 + (7 - 19)^2 = (37)^2$

$\Rightarrow \quad k^2 - 4k + 4 + 144 = 1369$

$\Rightarrow \quad k^2 - 4k - 1221 = 0$

$\Rightarrow \quad (k - 37)(k + 33) = 0$

$\Rightarrow \quad k = \mathbf{37}, -33$

67. (A) ATQ,
$\sin 2A = \cos(4A - 30°) = \sin(90° - 4A + 30°)$

$\Rightarrow \quad 2A = 120 - 4A$

$\Rightarrow \quad A = 20°$
Hence, $3A - 16° = 3 \times 20 - 16° = \mathbf{44°}$

68. (D) ATQ,
$\tan 9° \times \tan 30° \times \tan 45° \times \tan 81°$

$= \quad \tan 9° \times \dfrac{1}{\sqrt{3}} \times 1 \times \cot 9° = \dfrac{\mathbf{1}}{\sqrt{\mathbf{3}}}$

69. (C) ATQ,
$XY^2 = XA \times XB$

$\Rightarrow \quad 6^2 = 3 \times (3 + x)$

$\Rightarrow \quad 12 = 3 + x$

$\Rightarrow \quad x = \mathbf{9cm}$

70. (C) ATQ,

$\dfrac{EC}{CB} = \tan b$

$\Rightarrow \quad CB = EC \cot b \text{ ------(i)} \qquad \text{and}$

$\dfrac{ED}{CB} = \tan \alpha$

$\Rightarrow \quad CB = ED \cot \alpha \text{ --------(ii)}$
by equations (i) and (ii),
$EC \cot b = ED \cot a$
$(h + ED) \cot b = ED \cot a$

$ED = \dfrac{h \cot b}{\cot \alpha - \cot b}$

Hence, height of building = $h + ED$

$= \quad h + \dfrac{h \cot b}{\cot \alpha - \cot b} = \dfrac{\boldsymbol{h \cot \alpha}}{\boldsymbol{\cot \alpha - \cot b}}$

71. (B) ATQ,

$\sec\theta + \tan\theta = \dfrac{19}{2}$

then, $\sec\theta - \tan\theta = \dfrac{2}{19}$

then $\sec\theta = 2 \times \left[\dfrac{19}{2} + \dfrac{2}{19}\right] = \dfrac{365}{19}$

Hence, $\cos\theta = \dfrac{\mathbf{19}}{\mathbf{365}}$

72. (A) **D**

73. (B) Required % = $\dfrac{(525 - 500)}{500} \times 100 = \mathbf{5\%}$

74. (D) Total revenue in 2015 = 3 + 5 + 1 + 0.5
$= 9.5$ crore
Total revenue in 2016 = 3.3 + 5.25 + 1.2 + 1
$= 10.75$ crore
Hence, Required difference = 10.75 – 9.5
$= \mathbf{1.25\ crore}$

75. (B) Total revenue in 2015 and 2016 = 9.50 + 10.75 = 20.25 crore
Total cost in 2015 and 2016 = 10 + 10
$= 20$ crore
Hence, Cumulative profit = 20.25 – 20
$= 0.25$ crore
$= \mathbf{25\ lakh}$

MEANINGS IN ALPHABETICAL ORDER

Word	Meaning in English	Meaning in Hindi
Bristle	A short stiff hair, fiber, etc	कंटीला बाल
Castigate	Reprimand severely	डाँटना
Cogitate	To think hard	गहन चिंतन करना
Deliberate	Characterized by careful and thorough consideration	सोच समझ कर किया हुआ
Explicate	To explain	समझाना
Flay	To criticize or scold severely	कटु आलोचना करना
Imprudent	Not wise or sensible	अविवेकी
Imprudent	Lacking discretion	अविवेकपूर्ण
Mandible	Lower jaw bone	निचला जबड़ा
Mongrels	An animal of mixed origin	मिश्रित जाति का पशु
Perplex	To make someone completely puzzled, confuse	उलझाना
Quash	Reject as invalid	रद्द करना
Sagacity	Ability to make judgments	बुद्धिमत्ता से फैसले करने की क्षमता
Sleek	Smooth, glossy	चिकना, आकर्षक
Snout	Projecting nose & mouth of an animal	थूथन
Solicit	To urge someone	मनाना, सविनय प्रार्थना करना
Squash	Crush, suppress	दबाना
Tranquil	Peaceful	शांत

SSC MOCK TEST - 128 (ANSWER KEY)

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

88. **(A)** First form of verb is used after 'couldn't help but'. Hence replace 'had to cry' to with only 'cry'.

89. **(B)** Here 'thief' is not doing an action but the action is done on the subject (thief). Thus formation of sentence should be in passive voice. So replace 'from burning' with 'from being burnt'.

94. **(A)** 'Him' is used as an object form of pronoun. Hence replace 'him' with 'he'. Also 'It+ be ' is followed by subject form of
    $\underbrace{\text{any form}}$
    pronoun.

95. **(C)** Change 'from' into 'on'. Dates takes 'on'.

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