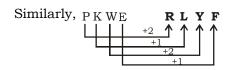


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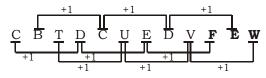
SSC MOCK TEST - 223 (SOLUTION)

- 1. (B) As, Medicine is necessary for Patient. Similarly, Education is necessary for **Student.**
- 2. (C) As, L S F W N T H X



- 3. (C) As, $14 \times 2 6 = 22$ Similarly, $17 \times 2 - 6 = 28$
- 4. (C) Except **Accessory**, all others are Synonyms.
- 5. (D) B E H K J M P S
 +3 +3 +3 +3 +3

 P S V Y E H K M
 +3 +3 +3 +2
- 6. (C) 47 59 = -12 57 - 69 = -12 71 - 84 = -1391 - 103 = -12
- (C) Ambiguity → Ambiguous → Ambitions → Animal → Animation.
- 8. (C) **CANCEL**
- 9. (D) As, $(15-7) \times 2 = 16$ and $(9-5) \times 2 = 8$ Similarly, $(28-10) \times 2 = 36$
- 10. (C) ATQ.,



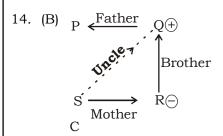
But According to Deepak

after 16^{th} May $\rightarrow 17^{th}$ ----- 20^{th} May \leftarrow Before 21^{st} May----(ii)

from equation (i) and (ii),

Hence, Examination was held on 17th May.

13. (D) **Jagrati** > Uma > Atulika > Amit > Aman



- 15. (B) $6^2 + 4^2 (6 + 4) = 42$ $5^2 + 7^2 - (5 + 7) = 62$ $8^2 + 9^2 - (8 + 9) = 128$
- 16. (B) Given, $12 \times 6 \div 5 + 4$

After changing signs as per details given in question,

$$12 \div 6 - 5 \times 4$$

$$= 2 - 20 = -18$$

- 17. (A) As, $(9 + 11) \times 3 = 60$ and $(13 + 17) \times 4 = 120$ Similarly, $(40 + 41) \times 5 = 405$
- 18. (A) White I. True II. True
 Black
 Blue
- 19. (B) A B B 12 -----

 \therefore Required number of boys = 4 + 12 = **16**

- 20. (A)
- 21. (B)
- 22. (B)
- 23. (A)
- 24. (A)



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- 25. (C)
- 27. (C) F1 Brings up a Help Window in many applications including browsers, Microsoft office and others.
 - F6 In many applications, it is used to send email like microsoft outlook; Siebel CRM.
 - Ctrl + F9 and Alt+F9 are used to built mail merge document in microsoft word.
- 28. (D) Sardar Patel stadium, Ahmedabad is a cricket stadium. It is commonly known as Motera Stadium.
- 30. (D) S.K Mitra was known for his work on the Ionosphere. He was awarded Padma Bhushan in 1962.
- 36. (C) June 4 – International Day of Innocent Children Victims of Aggression September 23 - International Day for Sign Language.
 - March 1 Zero Discremination Day
- 38. (C) State

Dam

- Indira Sagar, Bargi, Madhya Pradesh Bansagar, Gandhi Sagar, Mandi Kheda and Tawa Bisalpur, Mahi Rajasthan Bajaj Sagar, Rana Pratap Sagar, Meja and Jawai
- 40. (C) Gurmeet singh -Athlete H.S. Prannoy Badminton Chetan Anand Badminton
- 42. (D) A cell wall is a semi-permeable protective layer in some cell types. This outer covering is positioned next to the cell membrane (plasma-membrane) in most plant cell fungi, bacteria, algae, and some archaea. Animal cells however, do not have a cell wall. The cell wall has many important functions in a cell including protection, structure and support.
- 46. (C) 1. On May 20, 1498 Vasco da Gama reached Calicut.
 - 2. The Mughal Empire was founded in 1526.
 - 3. Indian Mutiny also called Sepoy Mutiny, got widespread but was unsuccessful rebellion against British rule in India in 1857-58.

- 48. (D) Fat-Soluble Vitamins-Vitamin A (Retional), Vitamin D (Cholecalciferol) and Vitamin K (Phylloquinone)
 - Water-soluble Vitamins -Vitamin C (Ascorbic acid), Vitamin B, (Riboflavin), Vitamin B₅ (Niacin), Vitamin B₆ (Pyridoxine),
 - Vitamin B₃ (Pantothenic Acid), Vitamin B₇ (Biotin) and Vitamin B₁₂ (Cobalamin).
- 51. (B) ATQ.,
 - Let number is N
 - N = K [LCM (12, 16, 18, 20, 25) + 4]
 - N = 3600K + 4
 - N = 3598K + 2K + 4
 - Put K = 5
 - N = 18004
 - Hence, Thousand place is 8
- 52. (D) ATQ.,

$$100\% - = \frac{30.80 \times 100\%}{20\%} = ₹ 154$$

- Hence, cost price is ₹154
- 53. (A) ATQ.,
 - Let, the total distance D and total time t

$$\frac{\mathrm{D}}{60} = t \Rightarrow \mathrm{D} = 60t$$

$$\Rightarrow \frac{60t \times 40}{100} = 24t$$

$$\Rightarrow \frac{24t}{U} = \frac{3}{5}t \Rightarrow U = 40 \text{ km/hr}.$$

Hence, he travel at speed 40 km/hr.

54. (B) ATQ,

Using effective rate concept

$$\begin{array}{lll} 1^{st} \ yr & 10\% \\ 2^{nd} \ yr & 11\% \\ 3^{rd} \ yr & 12.1\% \\ 4^{th} \ yr & 13.31\% \\ \end{array} \\ \begin{array}{lll} 10\% \ \text{of } 10\% \\ 10\% \ \text{of } 12.1\% \\ 10\% \ \text{of } 12.1\% \\ \end{array}$$

Difference between 4th year and 3rd vear.

Effective rate = 1.21%

Total interest =
$$\frac{1.21}{100}$$
 × ₹ 18000

= ₹217.80

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55. (D) ATQ.,

$$=\frac{\left(1+\cos\theta\right)^2+\sin^2\theta}{\left(\csc^2\theta-1\right)\sin^2\theta}$$

$$= \frac{1 + \cos^2 \theta + 2\cos \theta + \sin^2 \theta}{\left(\frac{1}{\sin^2 \theta} - 1\right)\sin^2 \theta}$$

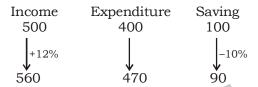
$$= \frac{2 + 2\cos\theta}{\frac{\cos^2\theta}{\sin^2\theta} \times \sin^2\theta}$$

$$= \frac{2(\sec \theta + 1)}{\sec \theta \frac{1}{\sec^2 \theta}}$$

=
$$2 \sec\theta (\sec\theta + 1)$$

56. (C) ATQ.,

$$80\% = \frac{4^{\text{Spend}}}{5^{\text{Income}}}$$



Percentage increase in his expenditure

$$= \frac{70}{400} \times 100 = 17.5\%$$

57. (A) ATQ.,

$$h = 7 \text{ cm}$$

$$2\pi rh = 352$$

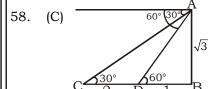
$$\Rightarrow 2\pi r \times 7 = 352$$

$$\Rightarrow$$
 r = 8 cm

Volume of cylinder = $\pi r^2 h$

$$= \frac{22}{7} \times 8 \times 8 \times 7$$

 $= 1408 \text{ cm}^3$



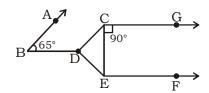
2 units $\longrightarrow 400\sqrt{3}$ metres

$$\sqrt{3}$$
 units $\longrightarrow \frac{400\sqrt{3} \times \sqrt{3}}{2}$

= 600 meters

Hence, height of tower is 600 metres

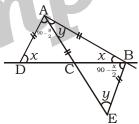
59. (B) ATQ.,



Alternate internior angle

$$\Rightarrow$$
 $\angle DCE=115^{\circ}-90^{\circ}=25^{\circ}$

60. (B)



In ΔADB

$$2x + 90 - \frac{y}{2} + y = 180^{\circ}$$

$$4x + y = 180^{\circ}$$
(i)

In ΔABE

$$2y + 90 - \frac{x}{2} + x = 180^{\circ}$$

$$4y + x = 180^{\circ}$$
(ii)

From equation (i) & (ii)

$$y = 36^{\circ}, x = 36^{\circ}$$

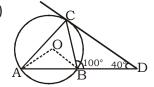
$$\therefore$$
 $\angle ACB = 180 - (36 + 36) = 180 - 72$
= 108°



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61. (C)



In ABCD

∠BCD=∠BAC=40° (Internal segment thousand)

and

In ΔABC

$$\angle ACB = 180^{\circ} - (80^{\circ} + 40^{\circ})$$

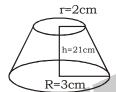
$$= 2 \times 60^{\circ} = 120^{\circ}$$

62. (B) Decrement in actual marks = [(82 + 46) -(28 + 64)] = 36 marks

Actual average marks =
$$66 + \frac{36}{45}$$

$$= 66.8$$

63. (D)



Volume of frustum = $\frac{\pi h}{3}$ (R² + rR + r²)

$$= \frac{22}{7} \times \frac{21}{3} \left[(3)^2 + 3 \times 2 + (2)^2 \right]$$

$$= 22 [9 + 6 + 4]$$

$$= 22 \times 19 = 418 \text{ cm}^3$$

64. (D) Given, $\frac{a}{h} = \frac{5}{2}$

$$\frac{8a-5b}{8a+5b} = \frac{b\left[8\left(\frac{a}{b}\right)-5\right]}{b\left[8\left(\frac{a}{b}\right)+5\right]}$$

$$=\frac{8\times\frac{5}{3}-5}{8\times\frac{5}{3}+5}=\frac{40-15}{3}\times\frac{3}{40+15}$$

$$=\frac{25}{55}=\frac{5}{11}$$

$$\Rightarrow$$
 $(8a - 5b) : (8a + 5b) = 5 : 11$

65. (B)
$$7.2 + (8.4 \div 0.12 \times 0.2) - 5 \times 3 \div 0.05 + 3$$

$$\Rightarrow$$
 7.2 + (70 × 0.2) – 5 × 60 + 3

$$\Rightarrow$$
 7.2 + 14 - 300 + 3

$$\Rightarrow 24.2 - 300$$

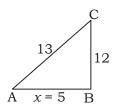
66. (D) ATQ,

$$\frac{1}{3} \pi \times 24 \times 6 \times 6 = \frac{4}{3} \pi \times r^3$$

$$\Rightarrow$$
 r = 6

Hence, the radius of sphere = 6cm

67. (D)



$$\csc\theta = \frac{13}{12}$$

by Pythagoras theorem

$$(13)^2 = (12)^2 + x^2$$

$$x = \sqrt{169 - 144}$$

$$x = 5$$

 $\sin\theta + \cos\theta - \tan\theta$

$$\frac{12}{13} + \frac{5}{13} - \frac{12}{5}$$

$$\frac{17}{13} - \frac{12}{5} = \frac{85 - 156}{65}$$

$$=\frac{-71}{65}$$

68. (D)
$$a^3 + b^3 + c^3 - 3abc$$

$$= (a + b + c) (a^2 + b^2 + c^2 - ab - bc - ca)$$

$$= 6[(a + b + c)^2 - 3(ab + bc + ca)]$$

$$= 6[36 - 3 \times 4]$$

$$= 6[24]$$

Required Quantity =
$$\frac{112}{8}$$
 × (31 + 28)
= 826 kgs



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70. (C) ATQ,

This is a triplet of right angle triangle $\frac{1}{12}$ $\frac{1}{12}$ $\frac{1}{12}$ $\frac{1}{12}$ $\frac{1}{12}$ $\frac{1}{12}$

i.e. $60^2 + 11^2 = 61^2$

Hence, Required Area = $2 \times \frac{1}{2} \times 60 \times 11$

 $= 660 \text{ cm}^2$

71. (C) ATQ,

$$8x + 5x = 6x + 35$$

 $\Rightarrow 7x = 35$

 $\Rightarrow x = 5$

Hence, the smallest number = $5 \times 5 = 25$

72. (D) ATQ,

Maximum Profit = ₹4500

73. (B) ATQ,

Total loss = 1500 + 1000 = ₹2500

: 1000

74. (C) ATQ,

Max. Profit: Min. Loss

1500

. 0

, <u>4</u>

Hence, Required ratio = 9 : 2

75. (C) ATQ,

$$x = \frac{2500}{12500} \times 100 = 20$$

 $\Rightarrow x = 20\%$

Hence, Required value = 20%

MEANINGS IN ALPHABETICAL ORDER

Word	Meaning in English	Meaning in Hindi
Churl	a rude ill-bred person	असभ्य
Epistle	a formal or elegant letter	पत्र, पत्रकाव्य
Epitaph	words written on a gravestone	स्मृति लेख
Impetuous	marked by violent force	अविवेकी
Insubstantial	lacking substance or material nature	असाध्य
Jejune	lacking nutritive value	रसहीन, तत्वहीन
Lamentable	deserving to be criticized or regretted	दुखद
Lout	an awkward brutish person	गंवार
Lumbering	to log and saw the timber of	लकड़ी काटने के काम
Malfeasance	wrongdoing or misconduct	दुराचार
Palling	to be or become pals	मित्र बनना
Pantomime	the art or genre of conveying a story by	मूकाभिनय
	bodily movements only	
Parsimonious	very unwilling to spend money	मितव्ययी, कंजूस
D 11: 1	/1 · 1 · C1	

Parsimonious very unwilling to spend money मितव्ययी, कंजूस
Pellicle a thin skin or film पतली झिल्ली
Perpetrate to commit करना (अपराध)
Perpetuate make (something) continue indefinitely लगातार बनाये रखना
Philanthropic seeking to promote the welfare of others परोपकारी

Philanthropic seeking to promote the welfare of others परापकारा
Pilgrimage a journey to a holy place तीर्थ यात्रा
Portrait a detailed description of something or आकृति

someone

Rebate a refund of some fraction of the amount paid छूट Riveting having the power to fix the attention दिलचस्प

Skunk an obnoxious or disliked person असभ्य या घृणित व्यक्ति

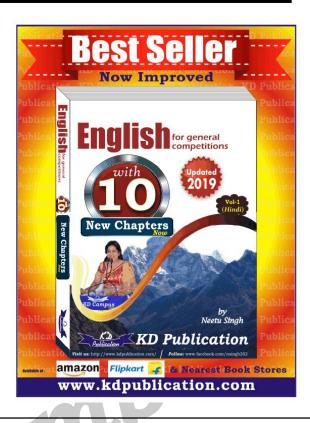
Slob a slovenly or boorish person मूर्ख व्यक्ति Tepid moderately warm थोड़े थोड़े गरम



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SSC MOCK TEST - 223 (ANSWER KEY)

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



- 76 (B) Change 'get' off into 'get over'.
 Get over: to return to your usual state of health, happiness after a shock.
 Hence 'to get over' should be used.
- 77. (B) Use preposition 'by' with 'baffled'.
- 78. (B) Replace 'with' by 'on' or 'over' because with "keep watch", on/over is used.



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