

SSC MOCK TEST – 181 (SOLUTION)

1. (B) As, Violin is played with Strings.
Similarly, Piano is played with **keys**.

2. (C) As, $\frac{4}{19} : \frac{64}{361} \Rightarrow \frac{4^3}{19^2} = \frac{64}{361}$

Similarly, $\frac{7}{8} : \frac{343}{64} \Rightarrow \frac{7^3}{8^2} = \frac{343}{64}$

3. (A) As, F : R
 $6 \times 3 \rightarrow 18$

Similarly, **D : L**
 $4 \times 3 \rightarrow 12$

4. (D) L F P H X L **Z N**
 $\frac{12}{2} = 6 \quad \frac{16}{2} = 8 \quad \frac{24}{2} = 12 \quad \frac{26}{2} = 13$

5. (C) Except **2401**, others are perfect cube.

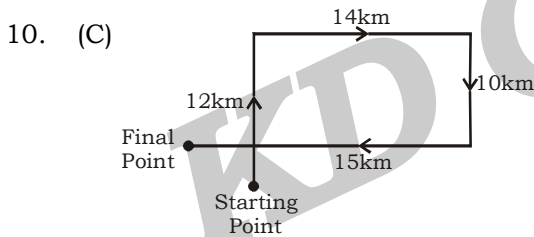
6. (A) Except **Copper**, others are used to make jewellery.

7. (C) **45231**

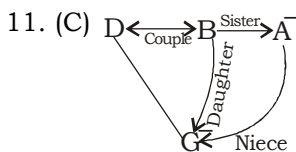
8. (B) $\frac{42}{2}, \frac{44}{2}, \frac{50}{2}, \frac{62}{2}, \frac{82}{2}, \frac{112}{2}$
 $+(1 \times 2) \quad +(2 \times 3) \quad +(3 \times 4) \quad +(4 \times 5) \quad +(5 \times 6)$

9. (B) A $\xrightarrow{+3}$ D $\xrightarrow{+3}$ G $\xrightarrow{+3}$ J

C $\xrightarrow{+3}$ F $\xrightarrow{+3}$ I $\xrightarrow{+3}$ L



\therefore She is in **north-west** w.r.t. her starting point.



\therefore 'G' is the **niece** of 'A'.

12. (C) **MINISTER**

13. (A) As, D $\xrightarrow{+4}$ H
R $\xrightarrow{+4}$ N
O $\xrightarrow{+4}$ S
W $\xrightarrow{+4}$ T
S $\xrightarrow{+4}$ W
Y $\xrightarrow{+4}$ U

Similarly, B $\xrightarrow{+4}$ F

E $\xrightarrow{+4}$ A

A $\xrightarrow{+4}$ E

U $\xrightarrow{+4}$ Q

T $\xrightarrow{+4}$ X

Y $\xrightarrow{+4}$ U

14. (A) $15 \div 3 + 24 - 12 \times 2$

After inter-changing the signs as per given details,
 $5 + 24 - 24 = 5$

15. (A) $6^2 \% 2^2 \wedge 3^2 = 41 \Rightarrow 36 - 4 + 9 = 41$

$7^2 \% 5^2 \wedge 2^2 = 28 \Rightarrow 49 - 25 + 4 = 28$

$5^2 \% 3^2 @ \wedge 1^2 ? \Rightarrow 25 - 9 + 1 = 17$

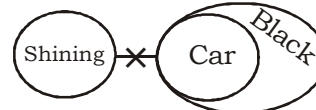
16. (C) As, $(4 + 5) \times 6 = 54$

$(2 + 1) \times 3 = 9$

Similarly, $(3 + 7) \times 8 = 80$

17. (B)

18. (B)



I. False II. True

III. True

\therefore Conclusion **II and III** follow.

19. (A)

20. (B)

21. (D)

22. (C)

23. (A)

24. (D)

25. (D) **J O I N T**
 $\downarrow \quad \downarrow \quad \downarrow \quad \downarrow \quad \downarrow$
32, 59, 57, 95, 31

26. (A) 'Keezharkuthu, Kanthanpara' waterfall - Kerala

'Irupa, Kalhatti, Muthyala Maduvu' waterfall - Karnataka

'Corbett Falls, Tiger Falls, Neer Garh, Neer Gaddu' waterfall - Uttarakhand

'Randha Falls, Lingmala, Umbrella' waterfalls - Maharashtra

28. (B) Painted Greyware belonged to later Vedic period (1000 - 600 BC). Ajanta paintings belong to the Gupta period. Pahari School came to the existence during the Mughal period.

29. (B) Finance Bill means a Bill ordinarily introduced every year to give effect to the financial proposals of the Government of India for the next financial year and includes a Bill to give effect to supplementary financial proposals for any period. The Finance Bill is introduced immediately after the presentation of the Budget. The introduction of the Bill cannot be opposed.

32. (C) Insulin is a Peptide hormon composed of 51 amino acids. Insulin is secreted from Pancreas (Islets of Langerhans).
34. (B) **Place Leader**
 Jhansi - Rani Laxmi bai
 Lucknow - Begam Hazrat Mehal
 Jagdishpur - Kunwar Singh
36. (D) The purpose of Directive Principles of State Policy is to establish social and economic democracy. Political democracy is established by the fundamental rights.
38. (D) Initially at start of heating from 0° C to 4° C there will be a contraction as a result of which volume decreases. On further heating beyond 4° C to 10°C the molecules gain Kinetic Energy and start moving more randomly. Thus, intermolecular distance increases as a result of which its volume increases.
40. (D) Cardiology - Study of heart diseases and disorders.
 Hematology - Study of Blood function and diseases.
 Odontology - Study of teeth development and diseases.
41. (D) **Chemical Formula**
 Nitroglycerine - $C_3H_5N_3O_9$
 Mercuric Oxide - HgO
 Phosphorus Trichloride - PCl_3
44. (A) Ligo-India observatory is scheduled to be operational in 2024. An MoU has been signed between DAE-DST of India and National Science Foundation of USA.
45. (A) It is observed that a liquid drop tends to contract and appear spherical when it is set free from external forces like gravity.
48. (A) **Boundary Line Country**
 Mannerheim Line - Russia and Finland
 Maginot Line - France and Germany
 Seigfrid Line - France and Germany
51. (C) CP of 100 kg of mixture = 1100 - 300 = ₹ 800
 CP of one kg of mixture = $\frac{800}{100} = ₹ 8$
 \therefore Required ratio = $\frac{A}{10} = \frac{B}{5} = 3 : 2$
52. (D) 60% of the total distance = $40 \times 3 + 60 \times 4.5 = 120 + 270 = 390$ km
 Total distance = $\frac{390}{60} \times 100 = 650$ km
 Remaining distance = $650 - 390 = 260$ km
- \therefore Required speed = $\frac{260}{4} = 65$ km/hr.
53. (A) Let the present age of Sneha's father and Vimal be F and V respectively
 A.T.Q.,
 $F + 10 = 2(V + 10)$
 $\Rightarrow F = 40 - 10 = 30$ years.
 \therefore Sneha's present age = $\frac{1}{6} \times 30 = 5$ years
54. (C) (X + Y)'s 1 day's work = $\frac{1}{14}$
 X's 1 day's work = $\frac{1}{25}$
 \therefore Y's 1 day's work = $\frac{1}{14} - \frac{1}{25} = \frac{11}{350}$
 So, Y will take $\frac{350}{11} = 31 \frac{9}{11}$ days.
55. (A) Rate = $\frac{100 \times SI}{P \times T} = \frac{100 \times P}{P \times 6} = \frac{50}{3} = 16.66\%$
56. (D) Let the sum is x.
 ATQ.,
 $\frac{x}{80} = \frac{17+15}{17-15} \Rightarrow \frac{x}{80} = \frac{32}{2}$
 $\therefore x = 16 \times 80 = ₹ 1280$
57. (A) Let the number of tickets of each value be x.
 $\therefore 55x + 85x + 105x = 2940$
 $\Rightarrow 245x = 2940$
 $\Rightarrow x = \frac{2940}{245} = 12$
58. (C) Total C.P = ₹ (12000 + 10000) = ₹ 22000
 Total S.P. = ₹ $\left(\frac{12000 \times 108}{100} + \frac{10000 \times 88}{100} \right)$
 = ₹ (12960 + 8800) = ₹ 21760
 \therefore Loss = ₹ (22000 - 21760) = ₹ 240
59. (D) Data inadequate
60. (A) Let the number = x
 ATQ.,
 $x^2 - 21x = 100$
 $\Rightarrow x^2 - 25x + 4x - 100 = 0$
 $\Rightarrow x(x - 25) + 4(x - 25) = 0$
 $\Rightarrow x = 25$
 \therefore Required number = 25

61. (A) Let the one side of the playground be x km
 ATQ.,
 Area $x^2 = 1127.6164$
 $\Rightarrow x = 33.58\text{m}$
 Total distance travelled by man is
 $33.58 \times 4 = 134.32\text{m}$

\therefore Required time = $\frac{134.32 \times 20}{49} = \mathbf{54.82\text{min}}$

62. (B) LCM of 48, 72 and 108 = 12×36
 = 432sec. = 7min 12sec.
 \therefore Required time = 10:00 + 7: 12

= **10: 07: 12 hrs.**

63. (D) Let the 2nd discount = x

$1500 \times \frac{(100-15)}{100} \times \frac{(100-x)}{100} = 1173$

$\Rightarrow 1500 \times \frac{85}{100} \times \frac{(100-x)}{100} = 1173$

$\Rightarrow (100-x) = 92$

$\Rightarrow x = 8\%$

64. (B) Let the speed = x & y

Now, $\frac{15}{x+y} = \frac{1}{2}$

$\Rightarrow x + y = 30 \dots \dots \dots$ (i)

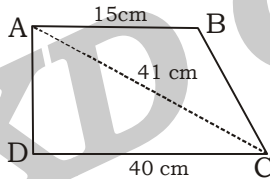
and, $\frac{15}{x-y} = \frac{5}{2}$

$\Rightarrow x - y = 6 \dots \dots \dots$ (ii)

By solving equation (i) and (ii), we get
 $x = 18 \text{ km/hr.}$ and $y = 12 \text{ km/hr.}$

\therefore Required speed = **18 km/hr.**

65. (C)



In $\triangle ADC$

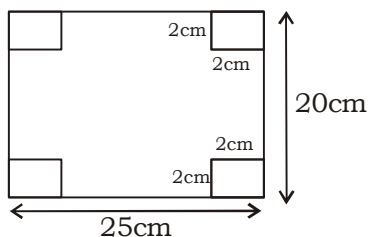
$AD = \sqrt{41^2 - 40^2}$

$\Rightarrow AD = \sqrt{81} = 9\text{cm}$

\therefore Required area = $\frac{1}{2} (40+15) \times 9$

= $\frac{55 \times 9}{2} = \frac{495}{2} = \mathbf{247.5\text{cm}^2}$

66. (B)



\therefore Volume of Box = $21 \times 16 \times 2 = \mathbf{672 \text{ cm}^3}$

67. (C) Let the radius of rod and sphere be r and R cm respectively

ATQ.,

$\frac{4}{3} \pi \times 21 \times 21 \times 21 = \pi \times r^2 \times 7$

$\Rightarrow r = 42 \text{ cm}$

Now,

Required ratio = $2 \pi r (r+h) : 4 \pi R^2$
 = $42 (42+7) : 2 \times 21 \times 21$

= **7: 3**

68. (C) $a + \frac{1}{b} = 1$

$\Rightarrow a = 1 - \frac{1}{b}$

$\Rightarrow a = \frac{b-1}{b}$

$\Rightarrow \frac{1}{a} = \frac{b}{b-1} \dots \dots \dots$ (i)

$b + \frac{1}{c} = 1$

$\Rightarrow \frac{1}{c} = 1 - b$

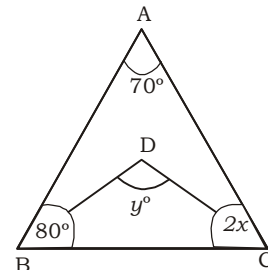
$\Rightarrow c = \frac{1}{1-b} \dots \dots \dots$ (ii)

Now, $c + \frac{1}{a}$

= $\frac{1}{1-b} + \frac{b}{b-1}$

$\Rightarrow \frac{1}{1-b} - \frac{b}{1-b} = \frac{1-b}{1-b} = \mathbf{1}$

69. (B)



In $\triangle ABC$,

$\angle C = 180^\circ - 70^\circ - 80^\circ = 30^\circ$

We know,

That D is incenter of $\triangle ABC$,

$\therefore \angle DCB = \frac{2x}{2} = \frac{30}{2} = \mathbf{15^\circ}$

Now,

In $\triangle ABC$,

$\frac{1}{2} \angle B + y + 15^\circ = 180^\circ$

$\Rightarrow y = 180^\circ - 15^\circ - 40^\circ$

$\Rightarrow y = \mathbf{125^\circ}$

70. (B) $\sin P + \operatorname{cosec} P = 2$

$$\Rightarrow \sin P + \frac{1}{\sin P} = 2$$

$$\therefore \sin P = 1$$

Now, $\sin^7 P + \operatorname{cosec}^7 P$

$$= \sin^7 P + \frac{1}{\sin^7 P}$$

$$= 1 + \frac{1}{1} = 2$$

71. (C) $\cos x \cdot \cos y + \sin x \sin y = -1$

$$\Rightarrow \cos(x - y) = -1$$

$$\Rightarrow x - y = 180^\circ$$

Therefore, $x = 180^\circ + y$

Now, $\cos x + \cos y$

$$= \cos(180^\circ + y) + \cos y$$

$$= \cos y + \cos y = 0$$

72. (A) Required amount = $\frac{450}{125} \times 100 = \mathbf{360 \text{ crores}}$

73. (D) Since, expenditure and income of y in all these years are not given.

74. (D) Since, expenditure and income of x and y are not given with respect to each other.

75. (B) Let the expenditure of company x and y be x and y respectively

ATQ.,

$$\frac{35}{100} = \frac{\text{Income} - x}{x} \dots (i)$$

$$\text{and } \frac{20}{100} = \frac{\text{Income} - y}{y} \dots (ii)$$

From eq. I and eq. II, we get

$$\frac{35x}{100} + x = \frac{20y}{100} + y$$

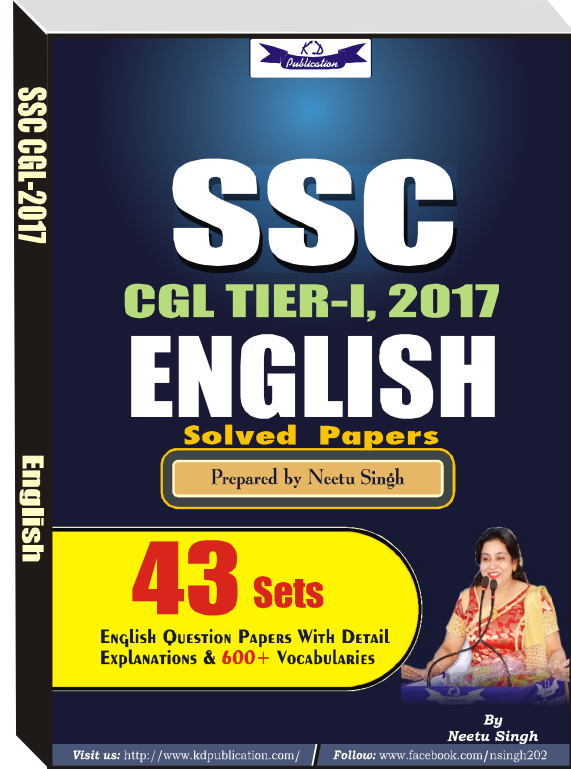
$$\therefore \frac{x}{y} = \frac{8}{9}$$

MEANINGS IN ALPHABETICAL ORDER

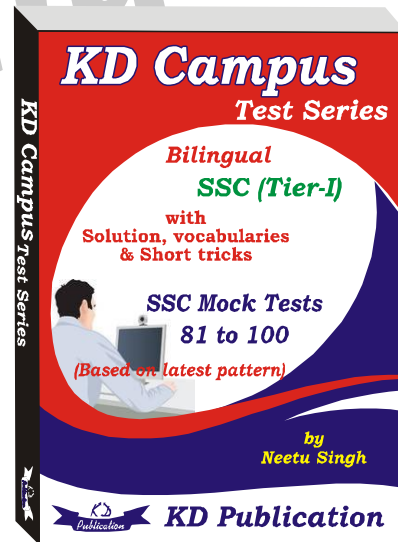
Word	Meaning in English	Meaning in Hindi
Evacuate	Remove from a place or remove something	हटा देना, रिक्त करना
Demean	To disrespect someone	नीचा दिखाना
Concur	Agree	सहमत होना
Disdain	Consider to be unworthy of one's consideration	तिरस्कार, तुच्छ समझना
Gourmand	A person who enjoys eating and often eats too much	चटोरा, पेटू
Henpeck	A person who is controlled by his wife	जोरू का गुलाम
Coquette	A woman who endeavors without sincere affection to gain the attention and admiration of men	अपने सौंदर्य से पुरुषों को मोहित करने वाली
Gulp	To swallow hurriedly	जल्दी से निगलना
Ingest	Take into the body by swallowing or absorbing it	निगलना
Degrade	Treat or regard with disrespect	नीचा दिखाना
Mockery	A subject of laughter	उपहास, मजाक
Dexterous	Showing or having skill	अनुभवी, बुद्धिमान
Cynic	A person who believes that human conduct is motivated wholly by self interest	मानवद्वेषी, दोषदर्शी
Bohemian	Socially unconventional in an artistic way	रूढ़िमुक्त
Demagogue	A person who makes false claims and promises in order to gain power	दुर्जनों का नेता
Chauvinist	A person who shows aggressive patriotism	अंधराष्ट्रीवादी
Dwindle	To become smaller in size, amount or strength	कम होना

SSC MOCK TEST - 181 (ANSWER KEY)

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



76. (B) Sentence is talking about the past event. So use simple past instead of simple present. (Use She came in place of She comes)
77. (C) Use fares, not fairs. Fare is the money paid for a journey on public transport.
78. (B) It is not too many, it is too much. Many goes with countable things and protective is uncountable. So too much is correct.
79. (B) Large Part means a large number of people. Hence what is correct here is the sentence indicates as pollution.
80. (A) 'Pick on' means to 'treat unkindly'.
88. (A) The preposition 'on' in best interest on heat in wrong in his best interest at heart.



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