

SSC MOCK TEST – 203 (SOLUTION)

1. (A) As, Women → 5 letters ⇒ 25
 Similarly, Men → 3 letters ⇒ 9

2. (D) As, ABC → ZYX
 Reverse
 Similarly, NML → MNO
 Reverse

3. (B) As, $36 \times 2 = 72$, $36 \div 2 = 18$
 Similarly, $24 \times 2 = 48$, $24 \div 2 = 12$

4. (B) $\begin{array}{ccc} 1 & 2 & 3 \\ \uparrow & \uparrow & \uparrow \\ +1 & +1 & \end{array}$ $\begin{array}{ccc} 4 & 5 & 7 \\ \uparrow & \uparrow & \uparrow \\ +1 & +2 & \end{array}$
 $\begin{array}{ccc} 7 & 8 & 9 \\ \uparrow & \uparrow & \uparrow \\ +1 & +1 & \end{array}$ $\begin{array}{ccc} 5 & 6 & 7 \\ \uparrow & \uparrow & \uparrow \\ +1 & +1 & \end{array}$

5. (D) $\begin{array}{cccc} M & N & P & S \\ \uparrow & \uparrow & \uparrow & \uparrow \\ +1 & +2 & +3 & \end{array}$ $\begin{array}{cccc} D & E & G & J \\ \uparrow & \uparrow & \uparrow & \uparrow \\ +1 & +2 & +3 & \end{array}$
 $\begin{array}{cccc} T & U & W & Z \\ \uparrow & \uparrow & \uparrow & \uparrow \\ +1 & +2 & +3 & \end{array}$ $\begin{array}{cccc} P & Q & T & X \\ \uparrow & \uparrow & \uparrow & \uparrow \\ +1 & +3 & +4 & \end{array}$

6. (D) Except **Crow**, all others are animals.
 7. (D) **3,6,4,1,2,5**
 8. (D) Except **3200**, all others are not multiple of 400.
 9. (C) Let the age of son = $2x$
 than age of father = $7x$
 ATQ.,

$$\frac{2x + 20}{7x + 20} = \frac{4}{9}$$

$$\Rightarrow 8x + 180 = 28x + 80$$

$$\Rightarrow 10x = 100$$

$$\Rightarrow x = 10$$

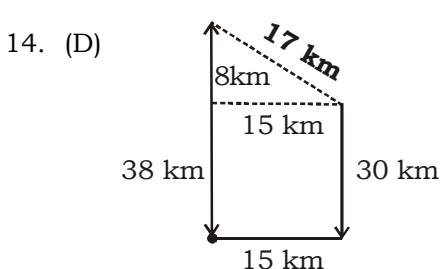
∴ Required Sum = $2x + 7x + 20$
 = $9 \times 10 + 20 = \mathbf{110 \text{ years}}$

10. (A) Except **17** all others are multiple of 3

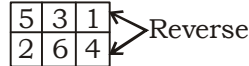
11. (D) $\begin{array}{cccc} 3 & 6 & 11 & 18 & 27 \\ \uparrow & \uparrow & \uparrow & \uparrow & \uparrow \\ +3 & +5 & +7 & +9 & \end{array}$

12. (B) ACE, FHJ, KMO, PRT
 +5 +5 +5

13. (D) $\begin{array}{ccccccc} 4 & 9 & 20 & 43 & 90 \\ \uparrow & \uparrow & \uparrow & \uparrow & \uparrow \\ \times 2+1 & \times 2+2 & \times 2+3 & \times 2+4 & \end{array}$



15. (B) From figure,

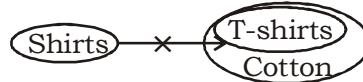


∴ Required answer = **3**

16. (C) As, SUNDAY → DNUAYS
 1 2 3 4 5 6 4 3 2 5 6 1
 Similarly, MOTHER → **HTOERM**
 1 2 3 4 5 6 4 3 2 5 6 1

17. (A) $18 + 6 - 6 \div 3 \times 3 = 6$
 By changing the signs according to option (A),
 $18 \div 6 - 6 + 3 \times 3 = 6$
 $\Rightarrow 3 - 6 + 9 = 6$
 $\Rightarrow 6 = 6$
 ∴ Option **(A)** is the right answer.

18. (B)



I. ×

II. ✓

Hence, **only conclusion II follows.**

19. (B) Required number of cubes = **18**

20. (B)

21. (D)

22. (A)

23. (D)

24. (D) **2, 8, 16**

25. (B)

P	A	W	N
↓	↓	↓	↓
99,	23,	77,	59

26. (A) Andaman and Nicobar Island (lowest)
 - 46/km²

Delhi (Highest) -	11297/km ²
Chandigarh -	9252/km ²
Puducherry -	2598/km ²
Daman and Diu -	2169/km ²
Lakshadweep -	2013/km ²
Dadar and Nagar Haveli	698/km ²

27. (A) **Day** **Event**
 3 May World Press Freedom Day
 24 January International Day of Education

8 June World Oceans Day

29. (D) Ethisphere Recognizes 128 World's most Ethical Companies for 2019. Sony Honored as One of "World Most Ethical Companies in 2019.

30. (A) The competitiveness chart was topped by Singapore.
 Venezuela got the last position.
 India has moved 43rd rank from 44th in 2018 (45th in 2017 and 41th in 2016)

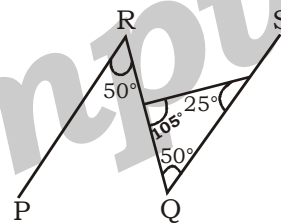
31. (A) **State** **CM**
 Mizoram Zoramthanga
 Meghalaya Conrad Sangma
 Manipur N. Biren Singh
32. (B) The breaking apart of nucleus of an atom is called fission not fusion. Fission is a radioactive decay process in which the nucleus of an atom splits into smaller parts.
33. (A) The Banking Regulation Act is applicable in Jammu Kashmir from 1966.
35. (D) **State** **Famous Fair**
 Punjab Saheedi Jar Mela
 Uttrakhand Magh Mela
 Himachal Shivratri Fair
 Pradesh
36. (A) **Author** **Book**
 Carl Marx Communist Manifesto
 Rudyard Jungle Book
 Kipling
 Leo Tolstoy War and Peace
40. (B) NBMSME was established on 15th May 2007 consisting of 47 members (18 Ex-officio members and 29 members the tenure of members is for two years)
41. (D) MSP is price fixed by Government of India to protect the producer farmers against excessive fall in price during bumper production years.
42. (D) The Indian Citizenship Amendment Bill was proposed in Lok Sabha on July 19, 2016, amending the Citizenship Act of 1955.
46. (D) Brahmo Samaj was founded by Raja Ram Mohan Roy in 1828, in Bengal. Veda Samaj was founded by Keshab Chandra Sen and K. Sridharalu Naidu in 1864, in Madras. Arya Samaj was founded by Dayanand Saraswati in 1875. Satyashodhak Samaj was founded by Jyoti Rao Phule in 1873
47. (B) In 1903, Pierre Curie received the Nobel Prize in Physics with his wife, Marie Curie and Henri Becquerel. In recognition of the extraordinary services they have rendered by their joint researches on the radiation phenomena. In 1968, Luis Alvarez received the Nobel Prize in Physics for the discovery iridium layer.
48. (B) **Country** **Capital**
 Costa Rica San Jose
 Ecuador Quito
 Greece Athens
49. (B) Force which acts on an object without coming physically in contact with it is called Non-Contact Force Applied Force. Examples: Gravitation Force, Normal Force, Air Resistance Force, Tension Force and String Force. Electrostatic Forces are attractive or repulsive forces between particles that are caused by their electric charge.

51. (D) ATQ,
 $9^{12} - 7^{12} = (9^6 - 7^6)(9^6 + 7^6)$
 $= (9^3 - 7^3)(9^3 + 7^3)(9^6 + 7^6)$
 $= (9 - 7)(9^2 + 7^2 + 7 \times 9)(9^3 + 7^3)(9^6 + 7^6)$
 $= 2(193)(9 + 7)(9^2 + 7^2 - 9 \times 7)(9^6 + 7^6)$
 $= 2 \times 16 \times 193 \times 67(9^6 + 7^6)$
 Hence, $9^{12} - 7^{12}$ is exactly divisible by **134**

52. (B) ATQ,
 The quantity of water = $\frac{600 \times 85}{100} = 510$ l
 Total quantity of final solution
 $= \frac{510}{(100 - 32)} \times 100$
 $= 750$ l
 Hence, Required quantity = $750 - 600 = 150$ l

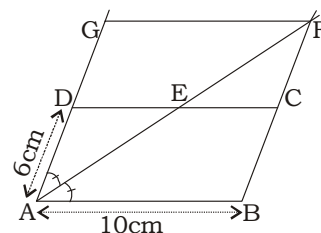
53. (B) ATQ,
 $x - y = 8$
 $\Rightarrow x = y + 8$ -----(i)
 Then, $xy = 42 \times 2$
 $\Rightarrow (y+8)y = 42 \times 2$
 $\Rightarrow y^2 + 8y - 84 = 0$
 $\Rightarrow (y+14)(y-6) = 0$
 \Rightarrow either $y = -14$ or $y = 6$
 The number can't be negative
 Hence, The Required number = **14, 6**

54. (A) ATQ,



Hence, $\theta = 105^\circ$

55. (A) ATQ,



Produce AD to G such that $AG \parallel BF$ and $GF \parallel CD$

then, In $\triangle AGF$ and $\triangle ABF$
 AF is common side and

$\angle GAF = \angle BAF$

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

now, $AG = AB$

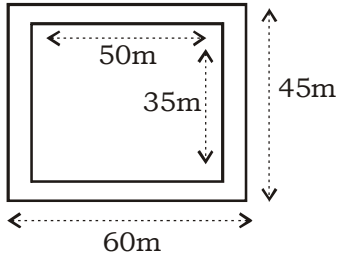
$\Rightarrow AG = CD + DG = 10$

$\Rightarrow DG = CF = 10 - 6 = 4$ [$\because AG = BF$]

Hence, $CF = 4$ cm

56. (B) ATQ,
 $\sec^2 50^\circ + \operatorname{cosec}^2 56^\circ - \cot^2 40^\circ - \tan^2 34^\circ$
 $= \sec^2 50^\circ + \operatorname{cosec}^2 56^\circ - \tan^2 50^\circ - \cot^2 56^\circ$
 $= \sec^2 50^\circ - \tan^2 50^\circ + \operatorname{cosec}^2 56^\circ - \cot^2 56^\circ$
 $= 1 + 1 = 2$

57. (B) ATQ,



Area of path	: Area of lawn	
$60 \times 45 - 50 \times 35$:	50×35
$2700 - 1750$:	1750
950	:	1750
19	:	35

58. (A) ATQ,

$$\frac{p^2 + q^2}{pq} = \frac{r^2 + s^2}{rs}$$

$$\Rightarrow \frac{p}{q} + \frac{q}{p} = \frac{r}{s} + \frac{s}{r}$$

$$\Rightarrow \frac{p}{q} = \frac{r}{s} \text{ or } \frac{p}{r} = \frac{s}{q}$$

$$\Rightarrow \frac{p-q}{p+q} = \frac{r-s}{r+s} \text{ or } \frac{p-q}{p+q} = \frac{s-r}{s+r}$$

Hence, $(p - q) / (p + q) = (r - s) / (r + s)$

59. (C) ATQ,

$$\frac{40 \times x}{100} - \frac{(60 - x)}{100} \times 10 = 4$$

$$\Rightarrow 40x + 10x - 600 = 400$$

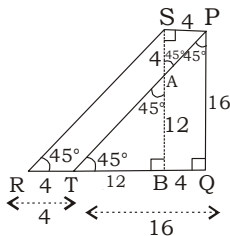
$$\Rightarrow 50x = 1000 \Rightarrow x = 20$$

Hence, Cost price of pencil = ₹20

60. (B) ATQ,

$$\text{Required distance} = \frac{(36 + 54)}{1} \times \frac{5}{18} = \mathbf{25m}$$

61. (A) ATQ,



Draw SB || PQ

$$\text{area of } \Delta ABT = \frac{1}{2} \times 12 \times 12 = 72$$

$$\text{area of } \Delta SRB = \frac{1}{2} \times 16 \times 16 = 128$$

then, area of SRTA = 128 - 72 = 56

$$\text{area of SPA} = \frac{1}{2} \times 4 \times 4 = 8$$

Then, Required area = 56 + 8 = **64cm²**

62. (C) $\frac{1}{N} = \frac{7 + 6 + 2\sqrt{42}}{1}$

$$\Rightarrow N = \frac{1}{13 + 2\sqrt{42}} = \mathbf{13 - 2\sqrt{42}}$$

63. (B) ATQ,

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

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

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

$$\Rightarrow 40u + 40v = 6 \text{ -----(ii)}$$

from equation (i) and (ii),

$$u = \frac{1}{40} \text{ and } v = \frac{1}{8}$$

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

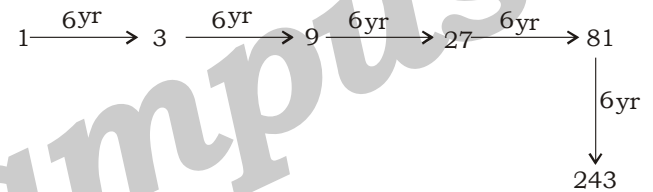
$$x - y = 8 \text{ -----(iv),}$$

from equation (iii) and (iv),

$$y = 16 \text{ and } x = 24$$

Hence, the speed of stream = **16 kmph**

64. (B) ATQ,



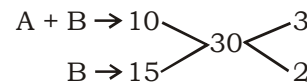
Hence, Required time = 6 + 6 + 6 + 6 + 6

= **30 years**

65. (C) ATQ,

$$B = 12 \times \frac{5}{4} = 15$$

Then,



$$\text{Time taken by A} = \frac{30}{3-2} = \mathbf{30 \text{ days}}$$

66. (C) ATQ,

$$\left(x^{32} + \frac{1}{x^{32}} \right) \left(x + \frac{1}{x} \right) \left(x^{16} + \frac{1}{x^{16}} \right) \left(x - \frac{1}{x} \right)$$

$$\left(x^4 + \frac{1}{x^4} \right)$$

multiply and divided by $x^2 + \frac{1}{x^2}$

then,

$$= \frac{\left(x^{32} + \frac{1}{x^{32}}\right)\left(x^2 + \frac{1}{x^2}\right)\left(x^2 - \frac{1}{x^2}\right) \times \left(x^4 + \frac{1}{x^4}\right)\left(x^8 + \frac{1}{x^8}\right)\left(x^{16} + \frac{1}{x^{16}}\right)}{x^2 + \frac{1}{x^2}}$$

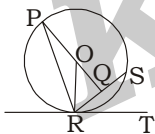
$$= \frac{\left(x^{32} + \frac{1}{x^{32}}\right)\left(x^4 - \frac{1}{x^4}\right)\left(x^4 + \frac{1}{x^4}\right) \times \left(x^8 + \frac{1}{x^8}\right)\left(x^{16} + \frac{1}{x^{16}}\right)}{x^2 + \frac{1}{x^2}}$$

$$= \frac{\left(x^{32} + \frac{1}{x^{32}}\right)\left(x^8 - \frac{1}{x^8}\right) \times \left(x^8 + \frac{1}{x^8}\right)\left(x^{16} + \frac{1}{x^{16}}\right)}{x^2 + \frac{1}{x^2}}$$

$$= \frac{\left(x^{32} + \frac{1}{x^{32}}\right)\left(x^{16} - \frac{1}{x^{16}}\right)\left(x^{16} + \frac{1}{x^{16}}\right)}{x^2 + \frac{1}{x^2}}$$

$$= \frac{\left(x^{32} + \frac{1}{x^{32}}\right)\left(x^{32} - \frac{1}{x^{32}}\right)}{x^2 + \frac{1}{x^2}} = \frac{\left(x^{64} - \frac{1}{x^{64}}\right)}{x^2 + \frac{1}{x^2}}$$

67. (B) ATQ,



$$QR = \frac{RS}{2} = 5\sqrt{2}$$

$$\angle ORQ = 90^\circ - 30^\circ = 60^\circ$$

$$\text{Then, } \cos 60^\circ = \frac{RQ}{OR} = \frac{5\sqrt{2}}{OR}$$

$$\Rightarrow OR = 10\sqrt{2} \quad \text{and,} \quad \tan 60^\circ = \frac{OQ}{RQ}$$

$$\Rightarrow 5\sqrt{2} \times \sqrt{3} = OQ$$

$$\Rightarrow OQ = 5\sqrt{6}$$

$$\text{Then, } PQ = PO + OQ = 10\sqrt{2} + 5\sqrt{6}$$

ΔPQR is a right angle triangle, because $\angle PQR = 90^\circ$

$$\begin{aligned} \Rightarrow PR^2 &= PQ^2 + RQ^2 \\ &= (10\sqrt{2} + 5\sqrt{6})^2 + (5\sqrt{2})^2 \\ &= 200 + 150 + 200\sqrt{3} + 50 \\ &= 400 + 200\sqrt{3} = \mathbf{200(2 + \sqrt{3})} \end{aligned}$$

68. (A) ATQ,

$$\begin{array}{ccc} 75 & & 100 \\ & \searrow & \nearrow \\ & 96 \times 100 & \\ & \nearrow & \searrow \\ 20 & & 5 \end{array}$$

Hence, Required ratio = **4 : 1**

69. (A) ATQ,

$$a = 3 + 2\sqrt{2} = 2 + 1 + 2 \times 1 \times \sqrt{2}$$

$$a = (\sqrt{2} + 1)^2$$

Square root both sides,

$$\sqrt{a} = \sqrt{2} + 1 \dots\dots$$

$$\sqrt{a} - \frac{\sqrt{a}}{1} = \sqrt{2} + 1 - \frac{1}{\sqrt{2} + 1} = \sqrt{2} + 1 - \sqrt{2} + 1 = \mathbf{2}$$

70. (D) ATQ,

$$\begin{array}{ccc} A & & \\ \frac{7}{13} & & \frac{9}{13} \\ & \nearrow & \searrow \\ & 800 & \\ & \nearrow & \searrow \\ \frac{1}{13} & & \frac{1}{13} \end{array}$$

$$1 : 1$$

Hence, Required ratio = **1:1**

71. (B) ATQ,

$$\frac{y_2 - y_1}{x_2 - x_1} = \text{slope}$$

$$\Rightarrow \frac{1 + 2}{x - 7} = \frac{-3}{10}$$

$$\Rightarrow 30 = -3x + 21 \Rightarrow x = \mathbf{-3}$$

72. (D) ATQ,

Maximum Profit = **₹4500**

73. (B) ATQ,

Total loss = 1500 + 1000 = **₹2500**

74. (C) ATQ,

$$\begin{array}{ccc} \text{Max. Profit} & : & \text{Min. Loss} \\ 4500 & : & 1000 \\ 9 & : & 2 \end{array}$$

Hence, Required ratio = **9 : 2**

75. (C) ATQ,

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

$$\Rightarrow x = 20$$

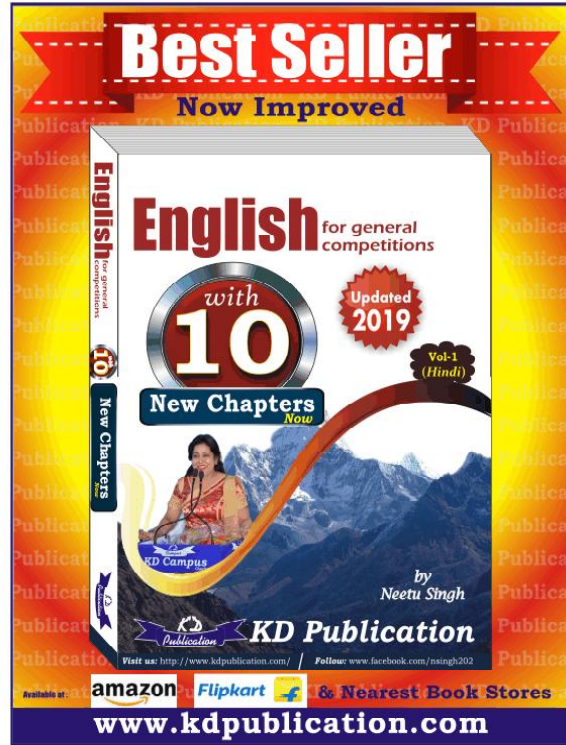
Hence, Required value = **20**

MEANINGS IN ALPHABETICAL ORDER

Word	Meaning in English	Meaning in Hindi
Abhorrent	causing or deserving strong dislike	घिनौना
Ablaze	in the process of burning , on fire	प्रज्वलित
Abstruse	difficult for one of ordinary knowledge or intelligence to understand	जटिल
Agony	extreme mental or physical pain	संताप
Brittle	easily broken or cracked	भंगुर
Commensurate	equal or similar to something in size, amount, or degree	आनुपातिक
Concession	the act of giving up something or doing something in order to reach agreement	छूट
Conflicts	a struggle for power, property, etc.	झगड़ना
Desiccate	to dry up or cause to dry up	सूखा
Dirge	a slow song that expresses sadness or sorrow	विलाप
Ecstasy	a state of very great happiness , extreme delight	उल्लास
Efflorescence	the period or state of flowering	फूलना
Embarrassment	the state of feeling foolish in front of others	शर्मिंदगी
Esoteric	only taught to or understood by members of a special group : hard to understand	गूढ
Exaggerate	to think of or describe something as larger or greater than it really is	बड़ा-चढ़ा कर कहना
Frisk	to move around in a lively or playful way	उछल-कूद करना
Frivolous	not important , not deserving serious attention	तुच्छ
Furious	very angry	क्रोधित
Gambol	to run or jump in a lively way	खुशी के साथ उछल-कूद करना
Jangle	to make a harsh ringing sound	घनघनाना
Loiter	to delay an activity with idle stops and pauses	टाल-मोटाल करना
Masochist	a person who derives sexual gratification from being subjected to physical pain	कामुक
Negotiations	a formal discussion between people who are trying to reach an agreement, an act of negotiating	सौदेबाजी
Obscure	difficult to understand , likely to be understood by only a few people	अस्पष्ट
Parasol	a light umbrella that you use to protect yourself from the sun	छाता
Pathetic	causing feelings of sadness and sympathy	दयनीय
Penitence	a feeling of deep sadness because you have done something wrong	पछतावा
Reticence	the quality or state of being silent	मौन, कम बोलने वाला
Shallow	having a small distance to the bottom from the surface or highest point	छिछला
Slacken	to become slower or less active , to slow down	सुस्त या शिथिल होना

SSC MOCK TEST - 203 (ANSWER KEY)

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



- | | |
|--|--|
| 76. (C) Change 'from' into 'of'. | 81. (B) 'negotiations' is the correct option. Negotiations are brought to a conclusion and not conflicts, quarrels and concession. |
| 77. (C) Change 'doubts' into 'doubt'. 'A number of people is plural hence plural verb is required. | 88. (C) 'Why he was' is the correct option. In reported speech if the question is of 'Wh family' no conjunction is used. |
| 78. (C) Change 'stretch' into 'stretched'. The sentence is in Past Tense. | 92. (C) 'Grievance' is incorrectly spelt word. 'Grievance' is the correct word. Grievance means a feeling of having been treated unfairly. |
| 79. (D) 'had eaten' is the correct option. If two actions take place in the past, one after the other, the 1 st action will be in Past Perfect Tense and the 2 nd action will be in Simple Past Tense. | 93. (A) 'Manoeuvre' is incorrectly spelt word. 'Manoeuvre' is the correct word. Manoeuvre means to move skillfully or carefully. |
| 80. (C) 'objected' is the correct option. Preposition 'to' in the sentence indicates that 'objected' will be the appropriate word here. | |

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