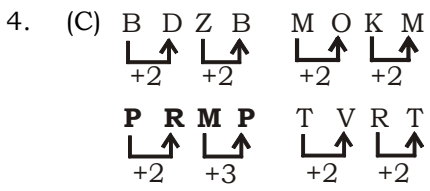
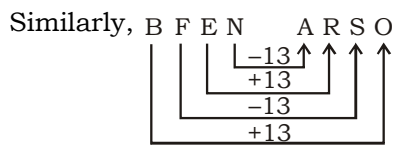
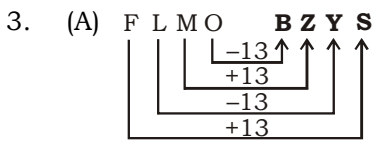


**SSC MOCK TEST – 204 (SOLUTION)**

1. (B) Anemia is a disease caused due to lack of Iron. Similarly, Goiter is caused due to lack of **Iodine**.

2. (A)  $(2 \times 4 \times 3)^2 + 243 = 819$   
 $(1 \times 6 \times 3)^2 + 163 = 487$



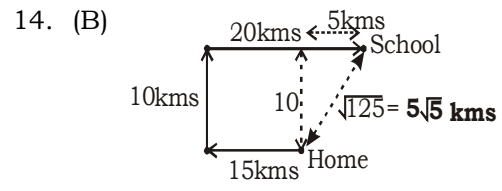
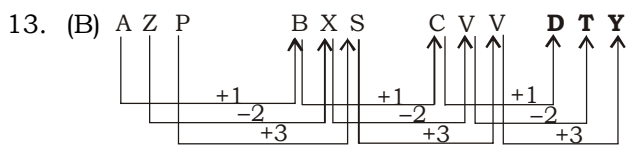
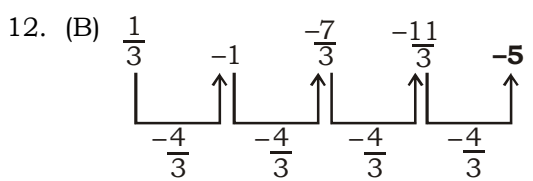
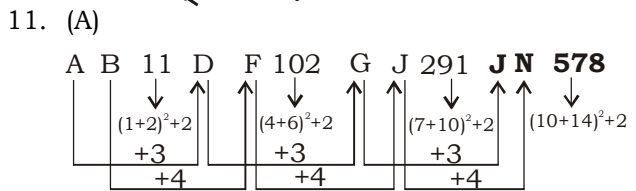
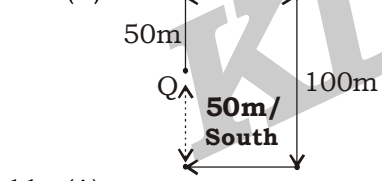
5. (D) Except 83 – 97, all others are two continuous prime numbers.

6. (C) Except, **Automated Teller Machine**, in all other bankings, there is no special instrument for use.

7. (B) Dilled → Dillydallied → Dillydallies → Dillydally → Dillydallying.

8. (D) aabcdabcda    bccdabcdd

9. (D) LMNOONMLLMNOONML

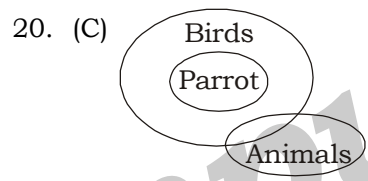


15. (B)  
 16. (B)  $3 + 4 + (4)^2 = 23$   
 $4 + 6 + (3)^2 = 19$   
 $2 + 5 + (3)^2 = 16$

17. (D)  $5 \times 6 + 5 + 6 = 41$   
 $7 \times 8 + 7 + 8 = 71$   
 $5 \times 9 + 5 + 9 = 59$

18. (B)  $2232 \div 2 = 1116$   
 $1116 \div 3 = 372$   
 $372 \div 4 = 93$

19. (D)



I. False  
 II. True

21. (C)  
 22. (A)  
 23. (C)  
 24. (D)  
 25. (D)

28. (A) 2019 FIFA Women's World Cup was the eighth edition, contested by 24 women's national teams. It took place between 7 June and 7 July, 2019, in France. The tournament was the first Women's World Cup to use the video assistant reference (VAR) system. Netherlands was the runner up. US recorded its fourth title.

29. (D) UNESCO World Heritage Convention was established in 1977. There are 38 World Heritage sites located in India. These include 30 cultural, seven natural sites and one mixed site. India has the sixth largest number of sites in the world.

30. (B) The operation Sudarshan will cover entire over 1000 km length of India with Pakistan International Border out of which Jammu shares about 485 km and 553 km in Punjab.

31. (D) It is a scheme of Haryana Govt. which promotes crop diversification. Other objectives of the scheme are:



Campus

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- To reduce area of water guzzling crops in Haryana.
- Introduction of technological innovation for establishing alternate crops for sustainable agriculture
- To control soil fatigue because of rice-wheat cycle
- Ensure purchase of produce through MSP and give farmers input support.

32. (C) LESA is pyramid-like structure whose purpose is to rescue an astronaut if he suffers an injury on the lunar surface.

37. (A) E-2020 is an initiative of WHO where countries were identified by WHO in 2016 as having the potential to become malaria free by 2020.

38. (B) Bhima River is a tributary of river Krishna.

40. (A) A Government budget is said to be balanced budget if the estimated government expenditure is equal to expected government receipts.

A surplus budget is a period when income or receipts exceed outlays or expenditure.

A deficit budget is when spending exceeds income.

41. (A) **Other constitution**      **Borrowed features**

Government of India Act, 1935	Office of Governor, Judiciary, Federal Scheme and Emergency provisions.
-------------------------------	---

British Constitution	Rule of law Parliamentary government, single citizenship and cabinet system.
----------------------	--

American Constitution	Judicial Services, Independence of Judiciary, Fundamental Rights and Impeachment of President.
-----------------------	--

44. (B) Lengpui is Domestic Airport in Aizawl, Mizoram.

Pakyong first greenfield Airport is one of the five highest airports in India. It is the 100th operational airport in India. It was inaugurated by PM Narendra Modi on 24 september, 2018.

Bagdogra International Airport (Assam)– It is operated as a civil enclave at AFs Bagdogra of the Indian Air Force.

Para International Airport is in Bhutan.

45. (B) Article 376      Provisions as to judges of High Courts

Article 373      Power of president to make order in respect of persons under preventive detention in certain cases.

Article 375      Courts, authorities and officers to continue to function subject to the provisions of the constitution.

46. (A) **Date**      **Event**

12 June      World Day Against Child labour

15 September      International Day of Democracy.

5 December      World Soil day

47. (A) **Fruit**      **Botanical name**

Watermelon -      Pepo

Orange -      Citrus

Grapes -      Berry

49. (B) Indian Press Act      - 1910

Morley-Minto reforms      - 1909

Rowlett Act      - 1919

Purna Swaraj Declaration - 1929

50. (A) Arterioles are small arteries that deliver food to capillaries. Its diameter is less than 100 to 300 µ m.

Venule is small vein, that collect blood from the capillaries. Its diameter is in the range of 7 µ m to 1 mm.

Diameter of Lymphatic capillaries is in range from 15-75 microns. Capillarie's diameter is around 3-4 µ m.

The largest capillaries are found in liver. Capillaries connect arterioles to Venules.

51. (B)  $\left(\frac{4}{9}\right)^{\frac{3}{2}} \times \left(\frac{1}{2}\right)^{-5} - 3 \times (27)^{\frac{2}{3}} - \left(\frac{1}{4}\right)^{-2} \times 5^0 \times \left(\frac{16}{9}\right)^{\frac{-1}{2}}$

$$= \left(\frac{3}{2}\right)^3 \times 2^5 - 3 \times 3^2 - 4^2 \times 1 \times \frac{3}{4}$$

$$= 108 - 27 - 12 = 69$$

52. (D) A.T.Q,  
Sum of the roots  $(\alpha + \beta)$

$$= 5 + \sqrt{24} + 5 - \sqrt{24} = 10$$

and, Product of the roots  $(\alpha\beta)$

$$= (5 + \sqrt{24}) \times (5 - \sqrt{24}) = 1$$

Now,  
Required equation  $\Rightarrow x^2 - (\alpha + \beta)x + \alpha\beta = 0$

$$\Rightarrow x^2 - 10x + 1 = 0$$

53. (B) Let CP of the article be ₹100x  
Then,  
SP of the article =  $100x \times \frac{125}{100} = 125x$

Now,  
A.T.Q,  
 $(100x - 50) \times \frac{350}{300} = 125x - 100$

$$\Rightarrow (100x - 50) \times 7 = (125x - 100) \times 6$$

On solving, we get  
 $x = 5$   
Then, CP of the article =  $100 \times 5 = ₹500$

54. (D)  $\frac{1}{2} + \frac{1}{6} + \frac{1}{12} + \dots + \frac{1}{240}$

$$= \left(1 - \frac{1}{2}\right) + \left(\frac{1}{2} - \frac{1}{3}\right) + \left(\frac{1}{3} - \frac{1}{4}\right) + \dots + \left(\frac{1}{15} - \frac{1}{16}\right)$$

$$= 1 - \frac{1}{16} = \frac{15}{16}$$

55. (D) A.T.Q,  

$$\begin{matrix} A \rightarrow 8 \\ B \rightarrow 10 \end{matrix} > 40 < \begin{matrix} 5 \\ 4 \end{matrix}$$
 Time taken by A and B to fill the tank

$$= \frac{40}{9} \text{ hours}$$

Here, total extra time taken

$$= 2\frac{2}{9} = \frac{20}{9} \text{ hours}$$

i.e.,  $\frac{1}{2}$  cistern (20 litre) is emptied by pipe

C in  $\frac{40}{9}$  hours.

Then, total time taken by pipe C to empty

the tank =  $\frac{40}{9} \times 2 = \frac{80}{9} = 8\frac{8}{9}$  hours

56. (C) A.T.Q,  
 $1M = 2C$   
and,  
 $(4M + 5W + 6C) \times 15 = (2M + 3W + 2C) \times 31$

$$\Rightarrow (7M + 5W) \times 15 = (3M + 3W) \times 31$$

On solving, we get

$$4M = 6W$$

Then, the ratio of capacity of man, woman and child =  $6 : 4 : 3$

Let 1 man, 1 woman and 1 child can complete the work in  $x$  days.

Then,  
 $(6 \times 4 + 4 \times 5 + 6 \times 3) \times 15$

$$= (6 + 4 + 3) \times x$$

$$\Rightarrow 62 \times 15 = 13x$$

$$\Rightarrow x = \frac{930}{13} = 71\frac{7}{13} \text{ days}$$

$\therefore$  Required number of days =  $71\frac{7}{13}$  days

57. (A)  $\frac{(\cos 18^\circ - \cos 54^\circ)(\sin 84^\circ + \sin 36^\circ)}{(\cos 24^\circ - \cos 96^\circ)(\sin 42^\circ - \sin 6^\circ)}$

$$= \frac{(2 \sin 36^\circ \sin 18^\circ)(2 \sin 60^\circ \cos 24^\circ)}{(2 \sin 60^\circ \sin 36^\circ)(2 \cos 24^\circ \sin 18^\circ)}$$

58. (C) Total age of couple at the time of marriage =  $23 \times 2 = 46$  years

and, total age of family at the time of birth of first child =  $16 \times 3 = 48$  years

and, total age of family at the time of birth of second child =  $15 \times 4 = 60$  years

Here, age of the first child =  $\frac{60 - 48}{3}$

$$= 4 \text{ years}$$

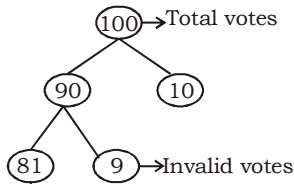
Now,

total age of family =  $20 \times 4 = 80$  years

then, age of the first child =  $4 + \frac{80 - 60}{4}$

$$= 4 + 5 = 9 \text{ years}$$

59. (C)



Now, difference between the votes of winning candidate and losing candidate

$$= 81 \times \frac{60}{100} - 81 \times \frac{40}{100} = \frac{81}{5} \text{ units}$$

A.T.Q,

$$\frac{81}{5} \text{ units} = 3240$$

Then, total number of votes = 100 units

$$= \frac{3240 \times 5}{81} \times 100 = 20000$$

60. (A) A.T.Q,

Area of the church to be painted  
= Area of four walls + C.S.A of hemisphere  
+ (area of roof – area of circular part of hemisphere)

$$= 4a^2 + 2\pi r^2 + a^2 - \pi r^2$$

$$= 5a^2 + \pi r^2$$

Here,  $a = 28$  cm

and, radius of hemisphere =  $\frac{a}{2} = 14$  cm

Then, required area

$$= 5 \times 28 \times 28 + \frac{22}{7} \times 14 \times 14 = 4536 \text{ m}^2$$

Now,

cost of white wash =  $15 \times 4536 = ₹68040$

61. (B) A.T.Q,

A	B	C
$4000 \times 3$	$6000 \times 6$	$5000 \times 8$
$+6000 \times 9$	$+4000 \times 6$	$+15000 \times 4$
$66000$	$56000$	$100000$

The, Ratio of profit of A, B and C  
=  $33 : 28 : 50$

And,

Total profit = ₹6750

and, the amount which C gets due to his continuity =  $100 \times 12 = ₹1200$

Now, profit to be shared among

A, B and C =  $6750 - 1200 = ₹5550$

Here,

$(33 + 28 + 50)$  units = ₹5550

$$\Rightarrow 111 \text{ units} = ₹5550$$

$$\Rightarrow 1 \text{ unit} = ₹50$$

Then, share of B = 28 units

=  $28 \times 50 = ₹1400$

62. (B) Let the investments of the person be  $P_1$ ,  $P_2$  and  $P_3$

A.T.Q,

$$P_1 \left[ \frac{r_1 t_1}{100} + 1 \right] = P_2 \left[ \frac{r_2 t_2}{100} + 1 \right] = P_3 \left[ \frac{r_3 t_3}{100} + 1 \right]$$

$$\Rightarrow P_1 \left[ \frac{6 \times 5}{100} + 1 \right] = P_2 \left[ \frac{8 \times 5}{100} + 1 \right] = P_3 \left[ \frac{10 \times 6}{100} + 1 \right]$$

$$\Rightarrow 13P_1 = 14P_2 = 16P_3$$

Then,

$$P_1 : P_2 : P_3 = 14 \times 16 : 13 \times 16 : 13 \times 14 = 112 : 104 : 91$$

$\therefore$  Required ratio =  $112 : 104 : 91$

63. (C) A.T.Q,

Distance travelled by B in 10 seconds  
= 200 m

Then, speed of B =  $\frac{200}{10} = 20$  m/s

and, time taken by B to cover 800 m

$$= \frac{800}{20} = 40 \text{ sec}$$

Now, time taken by A to cover 1000 m  
= 40 sec

and, time taken by B to cover 1000 m

$$= \frac{600}{20} + \frac{400}{10} = 70 \text{ seconds}$$

Then, required difference

$$= 70 - 40 = 30 \text{ seconds}$$

64. (B) A.T.Q,

$$x = \frac{\sqrt{9} + \sqrt{7}}{\sqrt{9} - \sqrt{7}}$$

$$\Rightarrow x = \frac{(\sqrt{9} + \sqrt{7})(\sqrt{9} + \sqrt{7})}{(\sqrt{9} - \sqrt{7})(\sqrt{9} + \sqrt{7})}$$

$$\Rightarrow x = 8 + \sqrt{63}$$

$$\text{and, } \frac{1}{x} = \frac{1}{8 + \sqrt{63}} = 8 - \sqrt{63}$$

$$\text{Then, } x + \frac{1}{x} = 8 + \sqrt{63} + 8 - \sqrt{63} = 16$$

$$\text{Now, } \frac{x^2 - 6x + 1}{2x} = \frac{x - 6 + \frac{1}{x}}{2}$$

$$= \frac{16 - 6}{2} = 5$$

65. (C) Here,

$$3^{50} = (3^5)^{10} = 243^{10},$$

$$4^{40} = (4^4)^{10} = 256^{10},$$

$$5^{30} = (5^3)^{10} = 125^{10},$$

and,

$$6^{20} = (6^2)^{10} = 36^{10},$$

$\therefore$  Greatest number =  $256^{10} = 4^{40}$

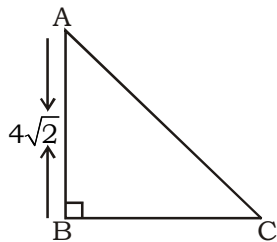
66. (B) Slant height of the pyramid

$$= \sqrt{10^2 + 7.5^2} = 12.5 \text{ m}$$

Now, total surface area of the pyramid  
= area of base + 4 × area of slant surface

$$= 20 \times 20 + 4 \times \left( \frac{1}{2} \times 20 \times 12.5 \right) = 900 \text{ m}^2$$

67. (D) Let AC = x unit



Then, BC = x - 2 unit  
Using pythagoras, we get

$$x^2 - (x - 2)^2 = (4\sqrt{2})^2$$

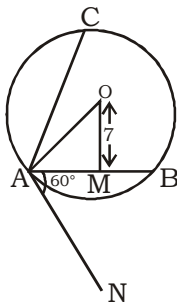
$$\Rightarrow (x - x + 2)(x + x - 2) = 32$$

$$\Rightarrow x = 9$$

Now,

$$\sec A + \tan A = \frac{AC}{AB} + \frac{BC}{AB} = \frac{9+7}{4\sqrt{2}} = 2\sqrt{2}$$

68. (A) A.T.Q,



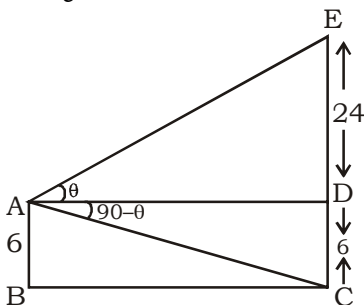
We know that,  
Radius of the circle  
makes right angle with tangent.  
Then,  $\angle OAB = 90^\circ - 60^\circ = 30^\circ$

$$\text{Now, } OA = \frac{OM}{\sin 30^\circ} = 14 \text{ cm}$$

Then, area of the circle =  $\pi r^2$

$$= \frac{22}{7} \times 14 \times 14 = 616 \text{ cm}^2$$

69. (B) A.T.Q



In  $\triangle ADE$ ,

$$\tan \theta = \frac{24}{AD} \dots\dots\dots (i)$$

and, in  $\triangle ADC$

$$\tan(90^\circ - \theta) = \frac{6}{AD}$$

$$\Rightarrow \cot \theta = \frac{6}{AD} \dots\dots\dots (ii)$$

Multiply equation (i) and (ii), we get

$$\tan \theta \times \cot \theta = \frac{24}{AD} \times \frac{6}{AD}$$

$$\Rightarrow AD^2 = 144$$

$$\Rightarrow AD = 12$$

$\therefore$  Distance between the person and the building = 12 feet

70. (B) Here, D, E and F are the midpoints of side AC, AB and BC respectively.

71. (C) We know that

$$\tan 2A = \frac{2 \tan A}{1 - \tan^2 A}$$

Putting the value of tanA, we get

$$\tan 2A = \frac{2 \left( \frac{1 - \cos B}{\sin B} \right)}{1 - \left( \frac{1 - \cos B}{\sin B} \right)^2}$$

$$= \frac{2(1 - \cos B) \sin B}{\sin^2 B - (1 - \cos B)^2}$$

$$= \frac{2(1 - \cos B) \sin B}{\sin^2 B - 1 + \cos^2 B + 2 \cos B}$$

$$= \frac{2(1 - \cos B) \sin B}{2 \cos B(1 - \cos B)} = \tan B$$

72. (C) Total candidates appeared in states B

$$\text{and C together} = 45000 \times \frac{19}{100} = 8550$$

and, total candidates qualified from states B and C

$$= 9000 \times \frac{23}{100} = 2070$$

Then, required percentage

$$= \frac{2070}{8550} \times 100 = 24.21\%$$

73. (B) Difference between the number of candidates qualified from C and F

$$= 9000 \times \frac{11-7}{100} = 9000 \times \frac{4}{100} = 360$$

74. (D) Required ratio =  $(15 + 8) : (17 + 22)$   
 $= 23 : 39$

75. (D)

State	Appeared	Qualified	Percentage
A	6750	1620	24%
B	4950	1440	29.09%
C	3600	630	17.5%
D	7650	1890	24.7%
E	4050	1260	31.1%
F	8100	990	12.22%
G	9900	1170	11.81%

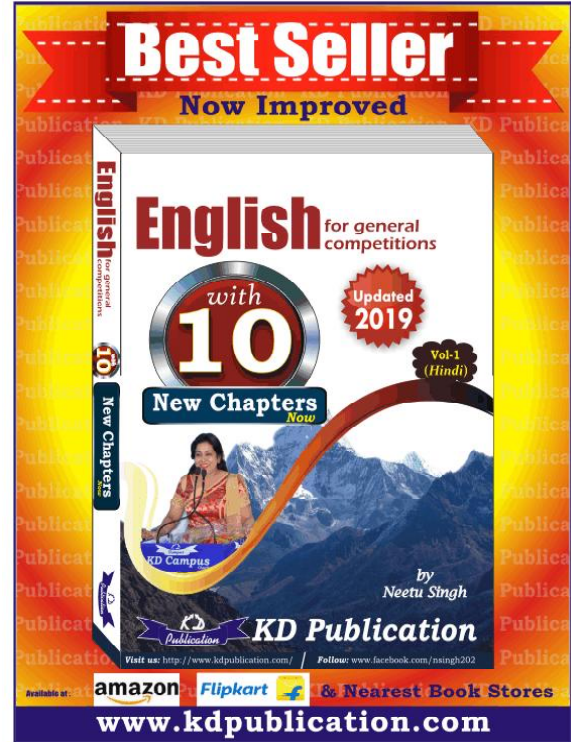
$\therefore$  State G has minimum percentage of qualified candidates.

## MEANINGS IN ALPHABETICAL ORDER

Word	Meaning in English	Meaning in Hindi
Acquisitive	having a strong desire to own or acquire more things	प्राप्ति या लाभ का इच्छुक
Avaricious	greedy for riches	लालची
Benevolent	kind and generous	उदार
Betrayal	the act of betraying someone or something or the fact of being betrayed	धोखा
Circumspection	thinking carefully about possible risks before doing or saying something	समझदारी
Covetous	having or showing too much desire for wealth or possessions or for something belonging to another person	लोभी
Dexterous	having or showing great skill	दक्ष, निपुण
Inflammatory	tending to excite anger or disorder or cause fire	भड़काने वाला, ज्वलंत
Intimate	having a very close relationship	घनिष्ठ
Introspection	a reflective looking inward, an examination of one's own thoughts and feelings	आत्मविश्लेषण
Jaundiced	feeling or showing dislike, distrust, or anger because of past experiences	पक्षपातपूर्ण
Mercenary	one that serves merely for wages	जो सिर्फ पैसे के लिए काम करता है।
Predatory	living by killing and eating other animals	मांसभक्षी
Prejudiced	having or showing an unfair dislike of a person or group because of some characteristic (as race or religion)	पक्षपातपूर्ण
Provocative	serving or likely to cause a reaction (as interest, curiosity, or anger)	उत्तेजक
Rebellion	an effort by many people to change the government or a leader by the use of protest or violence	विद्रोह
Reckon	to think or suppose (something)	अनुमान लगाना, मानना
Retrospection	the act of thinking about the past or something that happened in the past	पुरानी बातें सोचना
Siege	a situation in which soldiers or police officers surround a city, building, etc., in order to try to take control of it	जब्त करना
Tamper	to interfere or change in a secret or incorrect way	दखल देना
Treachery	the behaviour of a person who betrays trust or faith	धोखा, बेईमानी
Trifle	something that does not have much value or importance	मामूली, छोटी सी बात
Valiant	having or showing courage, very brave or courageous	दिलेर, वीर

**SSC MOCK TEST - 204 (ANSWER KEY)**

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



76. (A) Change 'since' into for. Since is used to refer to a specific point in time but here it is used for period of time which is wrong. 'For' is used for period of time.
77. (B) Change 'come in' into 'come out'. The phrasal verb 'come in' means "to enter" or 'to go to work' which is irrelevant according to the meaning of the sentence. 'Come out' means to say something in an open, honest way.
78. (D) No error
79. (C) 'turned you off' is the correct option 'Turn something off' means to lose interest in something after mind changes its opinion.
80. (C) 'Succumbed' is the correct option. 'Succumb' means to stop trying to resist something, to die. Succumb takes preposition 'to'.
81. (D) 'tamper' is the correct option. 'Tamper' means to interfere or change in a secret or incorrect way.

**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**