



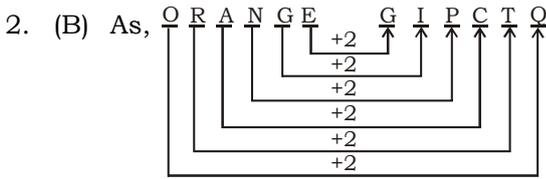
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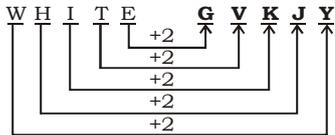
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**SSC MOCK TEST – 197 (SOLUTION)**

1. (B) As, Seismology is the study of earthquake.  
Similarly, Hydrology is the study of **water**.



Similarly,



3. (C) As,  $587 + (5 + 8 + 7) = 607$   
Similarly,  $687 + (6 + 8 + 7) = 708$   
4. (D) Except "**Bardoli Satyagraha Movement**",  
others are led by Mahatma Gandhi.

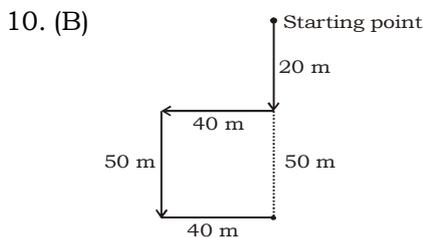
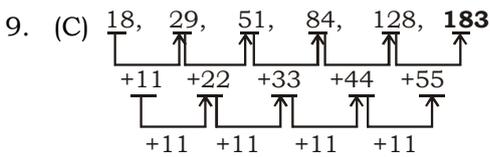
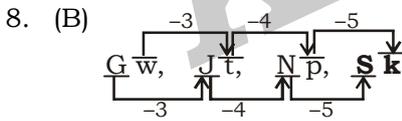
5. (B)  $HMR \Rightarrow \frac{H+R}{2} = \frac{8+18}{2} = 13 (M)$

$KPS \Rightarrow \frac{K+S}{2} = \frac{11+19}{2} = 15(O) \neq P$

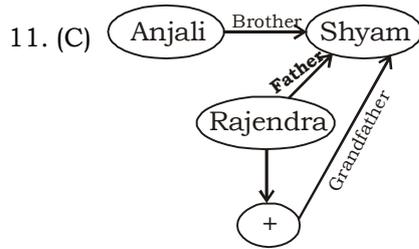
$BKT \Rightarrow \frac{B+T}{2} = \frac{2+20}{2} = 11(K)$

$MRW \Rightarrow \frac{M+W}{2} = \frac{13+23}{2} = 18(R)$

6. (C) "**1331**" is a cube of a prime number while  
all others are cube of a composite number.  
7. (B) **Heavy** → **Herald** → **Heredity** → **Hesitate**

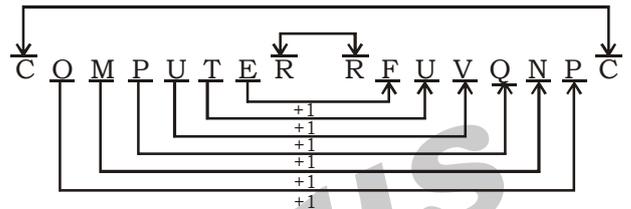


$\therefore$  Required distance =  $20 + 50 = 70 \text{ m}$

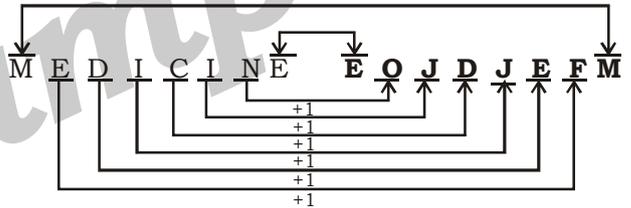


12. (B) **LOTUS**

13. (D) As,



Similarly,



14. (C) 72B18C 7A3D25  
After interchanging the signs as per given details,  
 $72 \div 18 \times 7 + 3 - 25$   
 $= 4 \times 7 + 3 - 25$   
 $= 31 - 25 = 6$

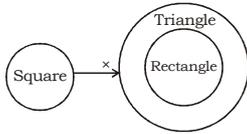
15. (B) As,  $N + D \rightarrow R$   
(14) (4) (18)  
and,  $B + V \rightarrow X$   
(2) (22) (24)

Similarly,  $F + L \rightarrow R$   
(6) (12) (18)

16. (C) As,  $(4 \times 3) + (3 \times 7) + (7 \times 5) + (5 \times 4)$   
 $= 12 + 21 + 35 + 20 = 88$   
and,  $(2 \times 5) + (5 \times 6) + (6 \times 8) + (8 \times 2)$   
 $= 10 + 30 + 48 + 16 = 104$   
Similarly,  $(7 \times 5) + (5 \times 8) + (8 \times 3) + (3 \times 7)$   
 $= 35 + 40 + 24 + 21 = 120$

17. (C) Required number of triangles = 14

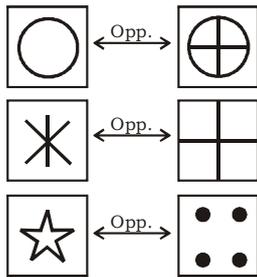
18. (B)

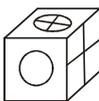


I. × II. ✓

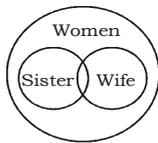
Hence, **only conclusion II follows.**

19. (C) From figure,



∴  can not be made by the question figure.

20. (B)



21. (D)

22. (D)

23. (D)

24. (D)

25. (D) **B L A C K**  
**23, 32, 24, 12, 34**

26. (D) Supply curve represent the relation between the cost value of good or service and the quantity supplied for a given period. Indifference curve links the combinations of quantities which the consumer regards as of equal value. IS curve is a variation of the income expenditure model incorporating market interest rate (demand).

28. (B) Orographic rainfall is produced from the lifting of moist air over a mountain. Convective rainfall is caused by intense evaporation in equatorial areas. Frontal rainfall is also called Cyclonic rainfall.

29. (D) Pneumonia is an infection in lungs.

30. (B) Nitric acid ( $\text{HNO}_3$ ) is highly corrosive mineral acid. It is colourless.  
Molar Mass – 63.01 g/mol  
Density – 1.51 g/cm<sup>3</sup>

Boiling point – 83°C

Melting point – 42°C

32. (B) Small Intestine – Duodenum, Jejunum and Ileum  
Large Intestine – Ascending colon, Transverse colon, Descending colon, Sigmoid colon and Rectum  
Pharynx – Nasopharynx, Oropharynx and Laryngopharynx.

33. (C) Prime Minister Narendra Modi also launched M-Aarogya Mobile App in Dadar Nagar Haveli. He also distributed Gold Cards to the beneficiaries of Ayushman Bharat and distributed Van Adhikar Patra to the beneficiaries.

34. (B) The Atacama Desert (Chile) is known as the driest non polar place in the world.

35. (B) Stafford Cup – Football

DCM Trophy – Football

38. (B) Aryabhata was launched on 19<sup>th</sup> April, 1975 from Kapustin Yar, a Russian rocket launch site in Astrakhan Oblast using a Kosmos-3M launch Vehicles. It was launched by ISRO.

Bhaskara II was launched on 20<sup>th</sup> November, 1981 from Kapustin Yar.

INSAT-1B was launched on 30<sup>th</sup> August, 1983 from Kennedy Space center Launch Complex 39.

APPLE was launched on 19<sup>th</sup> June, 1981 from Guiana Space Center.

39. (C) Article 240 (1) – Power of President to make regulations for certain Union territories.

Article 241 – High Courts for Union territories.

Article 243 (K) – Elections of Panchayats

Article 245 – Extent of laws made by Parliament and by the Legislatures of states.

40. (A) **Day** **Theme**

World Cancer Day – I am and I will

Rare Diseases Day – Bridging health and social care

Global Family Day – One Day in Peace

41. (C) **Book** **Writer**

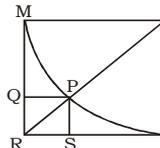
One Day Wonder – Sunil Gavaskar

Twenty years

at the Top – Sir Garfield Sobers

42. (A) **River**                      **Ancient name**  
 Jhelum                              Vitasta  
 Kabul                                Kubha  
 Betwa                                Vetravati
43. (C) Padma Vibhushan, 2019 Awardees  
 1. Teejan Bai – Art–Vocals–Folk – Chhattisgarh  
 2. Balwant Moreshwar Purandare – Art – Acting–Theatre – Maharashtra  
 3. Ismail Omar Guelleh – Public Affairs – Djibouti  
 4. Anilkumar Manibhai Naik – Trade & Industry–Infrastructure – Maharashtra
44. (D) **Animal**                      **Scientific name**  
 Ox                                      Bos taurus  
 Horse                                Equus caballus  
 Buffalo                              Bubalus bubalis
47. (B) Engel's law states that as income rises, the proportion of income spent on food falls, even if absolute expenditure on food rises.  
 Baxter's law(Bell doctrine) describes how a monopoly in a regulated industry can extend into and dominate a non-regulated industry.
48. (B) In India, at present, there are 6 Zonal Council. Originally five councils were created as per the States Reorganization Act 1956 which are as follows: Northern Zonal Council, Central Zonal Council, Eastern Zonal Councils, Southern Zonal Council, Western Zonal Council. The North East Council was set up in 1971.
49. (C) The Second Administrative Reforms Commission (ARC) was constituted on 31<sup>st</sup> August 2005, as a Commission of Inquiry, under the Chairmanship of Veerappa Moily for preparing a detailed blueprint for revamping the public administrative system.

51.(B)  $y^2 = x.z$  (given)  
 $2b = a + c$  (given)  
 $\Rightarrow b + b = a + c$   
 $\Rightarrow b - c = a - b$   
 Now,  $x^{b-c} \cdot y^{c-a} \cdot z^{a-b}$   
 $= x^{a-b} \cdot y^{c-a} \cdot z^{a-b}$                       [ $\because b - c = a - b$ ]  
 $= (x.z)^{a-b} \cdot (y)^{c-a}$   
 $= (y)^{2(a-b)} \cdot (y)^{c-a}$   
 $= (y)^{2a-2b+c-a}$   
 $= (y)^{a+c-2b} = (y)^{2b-2b}$   
 $= y^0$   
 $= 1$

52. (B) 

$\therefore$  MNLR is a square  
 Let  $MN = NL = LR = MR = 2$  units  
 In right angle  $\triangle RNL$ ,  
 $RN^2 = RL^2 + LN^2$   
 $\Rightarrow RN = \sqrt{(2)^2 + (2)^2} = \sqrt{4+4} = \sqrt{8}$   
 $\Rightarrow RN = 2\sqrt{2}$  units  
 So,  $PR = RN - PN = 2\sqrt{2} - 2$   
 [ $\because$  MPL is an arc with MN as radius  
 $\therefore MN = NL = NP = 2$  units]

So, Required ratio  

$$= \frac{\text{Area of square of side MN}}{\text{Area of square PQRS}}$$

$$= \frac{2 \times 2}{\left(\frac{2\sqrt{2} - 2}{\sqrt{2}}\right)^2} = \frac{8}{8 + 4 - 8\sqrt{2}}$$

$$= \frac{8}{12 - 8\sqrt{2}} = \frac{2}{3 - 2\sqrt{2}}$$

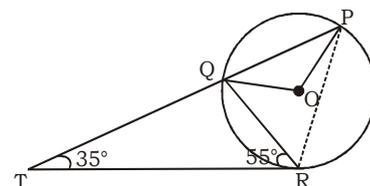
$$= 2 : 3 - 2\sqrt{2}$$

53. (C)  $\alpha + \beta = \frac{-9}{1}$

and,  $\alpha \beta = \frac{5}{1}$

$$\Rightarrow \frac{1}{\alpha} + \frac{1}{\beta} = \frac{\beta + \alpha}{\alpha\beta} = \frac{-9}{5}$$

54.(D)



In  $\triangle QTR$ ,  
 Exterior angle  $\angle RQP = 35^\circ + 55^\circ = 90^\circ$   
 And,  $\angle RPQ = \angle QRT = 55^\circ$   
 In  $\triangle QPR$ ,  
 $\angle QRP = 90^\circ - 55^\circ = 35^\circ$   
 So,  $\angle POQ = 2 \times 35^\circ = 70^\circ$

55. (D) ATQ,

$$\left(\frac{x+y}{2}\right) - \left(\frac{y+z}{2}\right) = 12$$

$$\Rightarrow x + y - y - z = 24$$

$$\Rightarrow x - z = \mathbf{24}$$

56. (C) 5 hours  $\times$  9 men  $\times$  10 days = 5 hours  $\times$  x men  $\times$  3 days

$$\Rightarrow \frac{5 \times 9 \times 10}{5 \times 3} = x$$

$$\Rightarrow x = \mathbf{30 \text{ men}}$$

57. (C)  $ax^2 + bx + c = 0$

If  $\alpha$  and  $\beta$  are the roots, then  $\alpha + \beta =$

$$\frac{-b}{a} \text{ and } \alpha \cdot \beta = \frac{c}{a}$$

$$(\alpha + 1)(\beta + 1)$$

$$= \alpha \cdot \beta + (\alpha + \beta) + 1$$

$$= \frac{c}{a} + \left(\frac{-b}{a}\right) + 1 = \frac{\mathbf{c - b + a}}{\mathbf{a}}$$

58. (B)  $x \sin \theta - 2 \cos \theta = 2$

$$\Rightarrow x \sin \theta = 2(1 + \cos \theta)$$

$$\Rightarrow x^2 \sin^2 \theta = 4(1 + \cos \theta)^2$$

$$\Rightarrow x^2(1 - \cos^2 \theta) = 4(1 + \cos \theta)^2$$

$$\Rightarrow x^2(1 + \cos \theta)(1 - \cos \theta) = 4(1 + \cos \theta)^2$$

$$\Rightarrow x^2 - x^2 \cos \theta = 4 + 4 \cos \theta$$

$$\Rightarrow x^2 - (x^2 + 4) \cos \theta = \mathbf{4}$$

59. (A) Put  $x = 2$  in equation  $3x + y = 6$

$$3 \times 2 + y = 6$$

$$\Rightarrow y = 0$$

$\therefore$  Required point =  $\mathbf{(2,0)}$

60. (B) Required speed =  $\frac{(500 + 221)}{35} \times \frac{18}{5}$

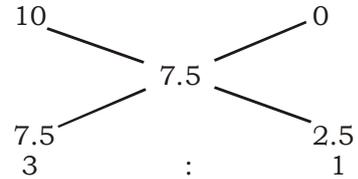
$$= \frac{721}{35} \times \frac{18}{5}$$

$$= \frac{12978}{175} = \mathbf{74.16 \text{ km/hr}}$$

61. (A) SP of milk without gain =  $\frac{9 \times 100}{120}$   
 $= \mathbf{\bar{₹} 7.5}$

C.P. of pure milk

C.P. of pure water



$\therefore$  Required ratio =  $\mathbf{3 : 1}$

62. (A) Heptagon has 7 sides.

So, number of sides ( $x$ ) = 7

A.T.Q.

$$\text{Internal angle} = \frac{(x-2)}{x} \times 180^\circ$$

$$= \frac{(7-2)}{7} \times 180^\circ$$

$$= \frac{180^\circ \times 5}{7} = \frac{900}{7} = \mathbf{128.57^\circ}$$

63. (A)  $(1,4)$        $(r,-2)$        $(-3,16)$

The points are collinear

$\therefore$  The area of triangle formed by them is zero  
 Now,

$$\frac{1}{2} [x_1(y_2 - y_3) + x_2(y_3 - y_1) + x_3(y_1 - y_2)] = 0$$

$$\Rightarrow \frac{1}{2} [1(-2 - 16) + r(16 - 4) + (-3)(4 - (-2))] = 0$$

$$\Rightarrow \frac{1}{2} [-18 + 12r - 18] = 0$$

$$\Rightarrow 12r - 36 = 0$$

$$\Rightarrow 12r = 36$$

$$\Rightarrow r = \mathbf{3}$$

64. (A) **Incenter**

65. (D) Let the number of ₹1, 50p and 10p coins be  $3x$ ,  $4x$  and  $5x$  respectively

ATQ,

$$(3x \times 1) + \left(4x \times \frac{50}{100}\right) + \left(5x \times \frac{10}{100}\right)$$

$$= 187$$

$$\Rightarrow 3x + 2x + \frac{1}{2}x = 187$$

$$\Rightarrow 11x = 187 \times 2$$

$$\Rightarrow x = 34$$

$\therefore$  Total number of coins =  $(3 + 4 + 5) \times 34 = \mathbf{408}$

66. (D) The angle formed in a semi circle is a **right angle**.

67. (A)  $\frac{9}{5}A = \frac{10}{7}B = \frac{15}{11}C$

$\Rightarrow \frac{A}{50} = \frac{B}{63} = \frac{C}{66}$

So, A : B : C = 50 : 63 : 66

Required percentage

$= \frac{(66 - 50)}{50} \times 100$

$= \frac{16}{50} \times 100 = \mathbf{32}$

68. (A) Let required fraction be  $x$

A.T.Q.,

$x + 4 \left( \frac{1}{x} \right) = \frac{13}{3}$

by option, put  $x = \frac{4}{3}$

$\frac{4}{3} + 4 \left( \frac{3}{4} \right) = \frac{13}{3}$

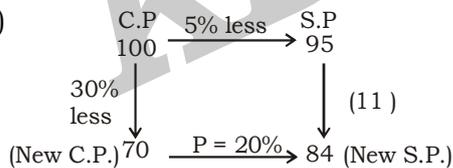
$\Rightarrow \frac{4}{3} + 3 = \frac{13}{3}$

L.H.S. = R. H.S.

So, required fraction

$\Rightarrow x = \mathbf{\frac{4}{3}}$

69. (A)

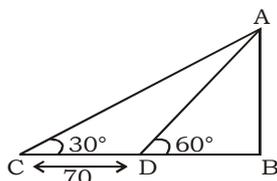


11 units = 84

$\therefore 38.5 \text{ units} = \frac{84}{11} \times \frac{385}{10} = ₹294$

$\therefore$  New selling price of article = **₹294**

70. (D)



Assume  $BD = x$

$\Rightarrow AB = x\sqrt{3}$

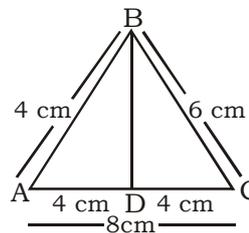
$CB = x + 70$

$\Rightarrow AB = \left( \frac{x + 70}{\sqrt{3}} \right)$

Now,  $x\sqrt{3} = \frac{x + 70}{\sqrt{3}} \Rightarrow x = 35 \text{ m}$

$AB = \text{height} = x\sqrt{3} = \mathbf{35\sqrt{3} \text{ m}}$

71. (B)



A.T.Q.,

$AB^2 + BC^2 = 2(AD^2 + BD^2)$

$\Rightarrow 16 + 36 = 2(16 + BD^2)$

$\Rightarrow 52 = 2(16 + BD^2)$

$\Rightarrow 26 - 16 = BD^2$

$\Rightarrow 10 = BD^2$

$\Rightarrow BD = \sqrt{10} \text{ cm}$

So, area of square of side  $BD = BD^2 = \mathbf{10 \text{ cm}^2}$

72. (D) In 2012 & 2015 the net exports was more than that of the previous year.

73. (D) In 2013,

$(\text{exports} - \text{Imports}) = -10$

$\Rightarrow 90 - \text{Imports} = -10$

$\Rightarrow \text{Imports} = \mathbf{100}$  million USD

74. (D) Required ratio =  $\frac{30}{20} = \mathbf{3 : 2}$

75. (C) Required net exports

$= 20 - 10 - 20 + 30$

$= \mathbf{20}$

**MEANINGS IN ALPHABETICAL ORDER**

<b>Word</b>	<b>Meaning in English</b>	<b>Meaning in Hindi</b>
Amatory	relating to, or expressing sexual love	प्रेम संबंधित
Aleatory	relating to luck and especially to bad luck	भाग्यधीन
Admonition	a criticism or warning about behaviour	डांट, आलोचना
Aestivation	summer sleep of cold-blooded animals	गर्मियों के दिन में छिप के रहना
Benevolent	having a desire to do good	दयालु
Conciliatory	intended to make someone less angry	समझौता करने वाला
Chaotic	in a state of complete confusion or disorder	अस्त-व्यस्त
Considerable	large in size, amount, or quantity	अधिक, विचारणीय
Construe	to understand or explain the sense or intention of	समझाना
Clamant	demanding attention	कोलाहलपूर्ण
Cryptic	difficult to understand	रहस्यमय
Distinct	strong and definite	नियत
Deduce	to figure out by using reason or logic	अनुमान करना
Derelict	something abandoned	भाग्या हुआ
Expound	to defend with argument	समझाना
Exigent	requiring immediate attention	अत्यावश्यक
Infer	to derive as a conclusion from facts or premises	निष्कर्ष निकालना
Iconoclast	a person who attacks settled beliefs or institutions	परम्परा तोड़ने वाला
Impregnable	not able to be captured by attack	अभेध
Lucid	clear to the understanding	स्पष्ट
Loathsome	causing feelings of hatred or disgust, very bad	घिनौना
Nauseous	affected with nausea or disgust	घृणित
Narcissist	self-admires	खुद को पसंद करने वाला (कुठ ठंडे खुन वाले जानवरो का)
Oracular	relating to, an oracle. Oracle is a person through whom god is believed to speak (in Ancient greek)	रहस्यमय
Obscure	not easy to see	अस्पष्ट
Unambiguous	clearly expressed or understood	स्पष्ट
Worthy	an important or respected person	सुयोग्य

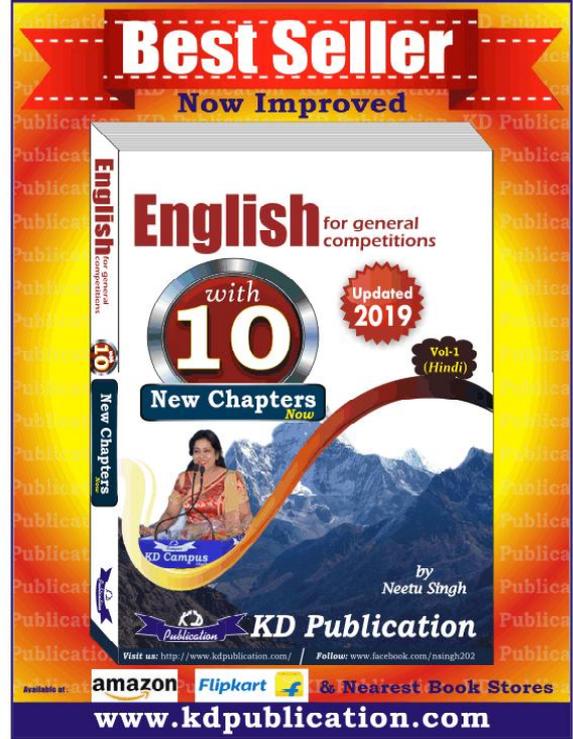
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## SSC MOCK TEST - 197 (ANSWER KEY)

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



76. (A) Add apostrophe ('s) with servant. Because 'behaviour' is a noun after 'maid servant'. Hence, His maid servant's behaviour (उसकी नौकरानी का व्यवहार) will be the correct use.
77. (B) Change 'have' into 'has'. News, Innings, Politics, Summons (बुलावा-जैसे न्यायालय से) etc. are certain nouns that are plural in form but singular in meaning (See English Vol. 1 Chapter 'Noun')
78. (B) Change 'once a blue moon' into 'once in a blue moon'. 'Once in a blue moon' is an idiom which means very rarely (बहुत कम, कभी-कभार)
79. (A) 'Over' is the correct option. 'Rule over someone/something' is the correct formation.
80. (A) 'Elite' is the correct option. 'Elite' means the people who have the most wealth and status in a society. (कुलीन वर्ग)
81. (C) See is followed by 'Gerund'.
89. (A) 'Often causes' is the correct option. Adverb of frequency (always, never, ever, often, seldom) are used before the verbs that they modify.
92. (A) 'Contemptous' is incorrectly spelt word. 'Contemptuous' is the correct word. 'Contemptuous' means 'feeling or showing deep hatred or disapproval' (घृणित)
93. (B) 'Adjoration' is incorrectly spelt word. 'Adjuration' is the correct word. 'Adjuration' means 'a solemn oath' (शपथ)

**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**