

**SSC MOCK TEST – 206 (SOLUTION)**

1. (C) Fire causes burning whereas Ice causes freezing.

2. (A) As, K L M N  
 $\begin{matrix} -2 & -2 & -2 & -2 \\ \downarrow & \downarrow & \downarrow & \downarrow \\ I & J & K & L \end{matrix}$

Similarly, T U V W  
 $\begin{matrix} -2 & -2 & -2 & -2 \\ \downarrow & \downarrow & \downarrow & \downarrow \\ R & S & T & U \end{matrix}$

3. (B) As,  
 $3^3 = 27$   
 Similarly,  
 $4^3 = 64$

4. (C) Except "Polo", others are indoor games.

5. (D)  $D \xrightarrow{+3} G \xrightarrow{+3} J$   
 $K \xrightarrow{+3} N \xrightarrow{+3} Q$   
 $R \xrightarrow{+3} U \xrightarrow{+3} X$   
 $I \xrightarrow{+3} L \xrightarrow{+2} N$

6. (D) Except '49', others are prime numbers.

7. (C) Satire → Stamped → storm → Strangle → Strap

8. (B)  $\begin{matrix} B & T & & D & R & & F & P & & H & N \\ | & | & & | & | & & | & | & & | & | \\ \downarrow & \downarrow & & \downarrow & \downarrow & & \downarrow & \downarrow & & \downarrow & \downarrow \\ +2 & & & +2 & & & +2 & & & +2 & \\ \downarrow & & & \downarrow & & & \downarrow & & & \downarrow & \\ -2 & & & -2 & & & -2 & & & -2 & \end{matrix}$

9. (A)  $\begin{matrix} +2 & +3 & +4 & +5 \\ \downarrow & \downarrow & \downarrow & \downarrow \\ 3, 8, 5, 27, 8, 64, 12, 125, 17, 216 \\ \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ 2^3 & 3^3 & 4^3 & 5^3 & 6^3 \end{matrix}$

10. (D) Ronit + Ashish = 84  
 A. T. Q,  
 3 Ashish + Ashish = 84  
 $\therefore$  Ashish = 21 yrs.  
 $\therefore$  Age of Ronit =  $3 \times 21 = 63$  years.

11. (B) Grand father  
 $\downarrow$   
 Son  
 $\downarrow$   
 Man — Ritika  
 $\downarrow$

As Ritika's gender is not defined, so Ritika can be a sister or brother of the man, But in option, sister is given  
 $\therefore$  Ritika is sister of that man.

12. (B) Globe

13. (D) ATQ,  
 Who are you → 432 .....(i)  
 They is you → 485 .....(ii)  
 They are dangerous → 295 .....(iii)  
 From (i) and (ii),  
 you → 4  
 from (ii) and (iii),  
 they → 5 and,  
**Dangerous → 9**

14. (B) Using option (B), we get  
 15 S 16 Q 2 P 4 = 47  
 After changing alphabets as per given details

$$15 + 16 \div 2 \times 4 = 47$$

$$\Rightarrow 15 + 8 \times 4 = 47$$

$$\Rightarrow 47 = 47$$

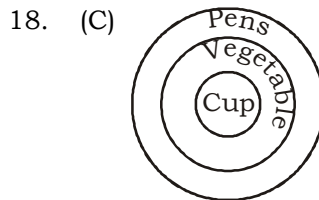
Hence, option (B) is right answer.

15. (D) As,  $4 * 7 * 2 \Rightarrow (4 - 1) (7 - 1) (2 - 1)$   
 $361 \Rightarrow 361$   
 $5 * 9 * 1 \Rightarrow (5 - 1) (9 - 1) (1 - 1)$   
 $480 \Rightarrow 480$

Similarly,  
 $2 * 1 * 3 \Rightarrow (2 - 1) (1 - 1) (3 - 1)$   
 $102 \Rightarrow 102$

16. (A)  $3 \times 10 \times 6 + 6 = 186$   
 $9 \times 5 \times 3 + 3 = 138$   
 $5 \times 7 \times 1 + 1 = 36$   
 $3 \times 2 \times 5 + 5 = 35$

17. (B) Number of triangles = 11



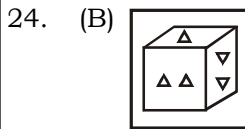
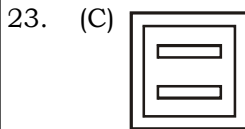
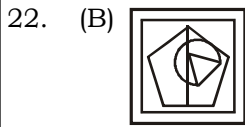
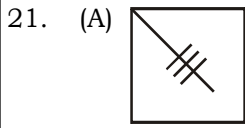
I. ✓  
 II. ✓  
 Hence, Both Conclusions follow.

19. (B) From figures 1 & 3,

3	6	1
3	4	5

$\therefore$  '1' will come opposite to face containing 5.

20. (C) Number of musical toys =  $14 + 28$   
= 42



25. (B) S      C      A      M  
↓      ↓      ↓      ↓  
**11, 04, 86, 59**

26. (A) Gita Jayanti Mahotsav- It falls on Shukla Ekadashi of Hindu Calender in month of Margashirsha. The day Symbolizes the sacred text of Shrimad Bhagvat-Gita, the sacred text of Hindu. For last 3 years Haryana has been celebrating Gita Jayanti Mahotsav on International level and every year a country is invited for being a partner country for the event.

28. (C) National Anti-Profiteering Authority (NAA) has been constituted under section 171 of the Central Goods and Services Tax Act, 2017. The main function of NAA is to ensure that the reduction of tax or the benefit of input tax credit is passed onto the recipients by way of commensurate reduction in prices. The chairman is who holds or has held a post equivalent to a secretary to the government of India.

31. (B) Day	Event
23 January	Netaji Shubhash Chandra Bose Jayanti
23 March	World Meteorological Day
23 April	World Book and Copyright day

32. (B) The Commonwealth Table Tennis Cham-

pionships was born at a meeting of Commonwealth delegates in Munich at the 1969 World Championships. Prior to inclusion in the Commonwealth Games proper in 2002, 15 Commonwealth Championships have taken place since 1971. 21st Commonwealth Table Tennis Championship held at Cuttack, Jawahar Lal Nehru Indoor Stadium (17 July to 22 July). Ayhika Mukherjee won the Women Single's title.

33. (B) Chandrayan-2 is India's second lunar exploration mission after chandrayan-1. It was developed by Indian Space Research Organisation (ISRO) and was launched from the Satish Dhawan space Centre to moon by a Geosynchronous Satellite launch Vehicle Mark III. It has  
> Orbiter  
> Lander- Vikram  
> Rover- Pragyan.

35. (A) <b>Exercise</b>	<b>Country</b>
	(India +)
Indra	Russia
Hariman Shakti	Malaysia
Shakti	France

36. (D) The Battle of Waterloo was fought on 18<sup>th</sup> June 1815 near waterloo (currently Belgium then part of the United Kingdom of the Netherlands). An imperial French army under the command of emperor Napoleon was defeated by the armies of seventh coalition, comprising an Anglo-allied army under the command of the Duke of Wellington combined with Persian army.

39. (C) RBI has following subsidiaries as fully owned:

- Deposit Insurance and credit Gurantee Corporation of India (DICGC)
- Bhartiya Reserve Bank Note Mudran Private Limited (BRBNMPL)
- Reserve Bank Information Technology Private Limited (ReBIT)
- Indian Financial Technology and Allied Services (IFTAS)

41. (A) Article 370- gave autonomous status to the state of Jammu and Kashmir. Article 239 A- Creation of local Legislatures or Council of Ministers or both for certain Union territories.

43. (D) Maurya Period- between 322 and 187 BCE  
 Gupta Period- from approximately 319 to 543 CE  
 Vedic Period-1500 – c500 BCE  
 Buddha Period- (c 563/480 – c 483/400 BCE)

(C) Author	Name of the Book
Joseph Lelyveld	Great Soul : Mahatma Gandhi and His struggle
Sanjay Baru	The Acidental Prime Minister
Richard Powers	The Overstory

(A) Disease	Test
AIDS	ELISA
Tuberclosis	Mantoux
Typhoid	Widal

51. (C) 10    11    15    22
- $$\frac{-3}{7} \quad \frac{-4}{7} \quad \frac{-8}{7} \quad \frac{-15}{7}$$

LCM (10, 11, 15, 22)  $-7 = 330n - 7$   
 For required no.  
 Let  $n = 30$   
 Required number =  $330 \times 30 - 7$   
 $= 9900 - 7$   
 $= \mathbf{9893}$

52. (C)  $\frac{S_1}{S_2} = \sqrt{\frac{T_2}{T_1}} \Rightarrow \frac{25}{S_2} = \sqrt{\frac{4}{\frac{9}{4}}}$   
 $\Rightarrow \mathbf{S_2 = 18.75 \text{ km/hr}}$

53. (D) Rate of regular 1 h =  $\frac{2000}{50} = ₹40$   
 Rate of additional hours =  $1 \frac{1}{2} \times 40$   
 $= 60$   
 No. of additional hours  
 $= \frac{2300 - 2000}{60} = \mathbf{5 \text{ hours}}$

54. (B) C.P. for Mohit =  $150 \times \frac{5}{4} = ₹187.5$   
 C.P for Aman =  $220 \times \frac{10}{11} = ₹200$   
 Profit percentage for Mohit =

$$\left( \frac{200 - 187.5}{187.5} \right) \times 100 = \mathbf{6.67\%}$$

55. (C) Student appeared in the exam =  $\left(1 - \frac{1}{9}\right)$   
 $= \frac{8}{9}$

Total passed students =  $\frac{8}{9} \times \frac{19}{24} = \frac{19}{27}$

Total Fail students =  $\frac{8}{9} - \frac{19}{27} = \frac{5}{27}$

According to the question

$$\frac{5}{27} \text{ units} \rightarrow 500$$

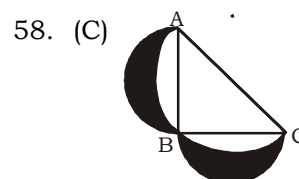
$$1 \text{ unit} \rightarrow \frac{270 \times 500}{5} = 2700$$

Required number of students = **27**

56. (B)  $x^{y+z} = 1$   
 $\Rightarrow x^{y+z} = 1^{x+z}$   
 $\Rightarrow x = 1$  (As,  $x, y$  &  $z$  are natural number)  
 and,  $y^{x+z} = 1024$   
 $\Rightarrow y^{1+z} = (2)^{10} = (4)^5$   
 $\Rightarrow (y = 2 \text{ and } z = 9) \text{ or } (y = 4 \text{ and } z = 4)$   
 and,  $z^{x+y} = 729$   
 $z^{1+y} = (3)^6 = (9)^3$   
 $\Rightarrow (y = 2 \text{ and } z = 9) \text{ or } (y = 5 \text{ and } z = 3)$   
 As,  $(y = 2 \text{ and } z = 9)$  satisfies both equation,  
 $x = 1, y = 2$  and  $z = 9$  is solution of the above equations.

Now,  $(z + 1)^{x+y+1} = (9+1)^{1+2+1} = (10)^4 = \mathbf{10000}$

57. (D)  $2M = 3W = 4B$   
 $14M + 12W + 12B$  can do 24 day  
 $14M + 12W + 12B = 28M$   
 Now,  $M_1D_1 = M_2D_2$   
 $28M \times 24 = (28 + x)M \times 14$   
 $\Rightarrow 28 + x = 48$   
 $\Rightarrow \mathbf{x = 20}$



Area of shaded portion = sum area of semi-circles on BC, AB + Area of  $\Delta ABC$  – Area of semicircle on AC.

$$\begin{aligned}
 & \pi \times 142 + \pi \times \left(\frac{21}{2}\right)^2 \times 21 \times 28 - \pi \left(\frac{35}{2}\right)^2 \\
 &= \frac{22}{7} \times 14 \times 14 + \frac{22}{7} \times \frac{21}{2} \times \frac{21}{2} + 294 - \\
 & \frac{22}{7} \times \frac{35}{2} \times \frac{35}{2} \\
 &= 616 + 346.5 + 294 - 962.5 \\
 &= \mathbf{294 \text{ cm}^2}
 \end{aligned}$$

59. (C) Put,  $\theta = 45^\circ$

$$l = \sqrt{2} - \frac{1}{\sqrt{2}} = \frac{1}{\sqrt{2}}, m = \sqrt{2} - \frac{1}{\sqrt{2}} = \frac{1}{\sqrt{2}}$$

Then,  $l^2 m^2 (l^2 + m^2 + 3)$

$$\left(\frac{1}{\sqrt{2}}\right)^2 \left(\frac{1}{\sqrt{2}}\right)^2 \left[\left(\frac{1}{\sqrt{2}}\right)^2 + \left(\frac{1}{\sqrt{2}}\right)^2 + 3\right]$$

$$\frac{1}{2} \times \frac{1}{2} \left[\frac{1}{2} + \frac{1}{2} + 3\right] = \frac{1}{4} \times 4 = \mathbf{1}$$

60. (C) Let the present age of Father and Son be  $7x$  and  $3x$  respectively.

ATQ.,

$$\frac{7x+6}{3x+6} = \frac{9}{5}$$

$$\Rightarrow x = 3$$

Their present age = 21 year and 9 years.

$$\text{Required sum of ages} = (21 + 12) + (9 + 12) = \mathbf{54}$$

61. (A) Required number  $\Rightarrow \frac{7}{9} = \frac{56}{x} \Rightarrow x = \mathbf{72}$

62. (C)  $\frac{x+y}{z} = \frac{8}{5} \Rightarrow 5x + 5y = 8z$  ... (i) and

$$\frac{y+z}{x} = \frac{3}{2} \Rightarrow 2y + 2z = 3x$$
 ... (ii)

From (i) and (ii), we get

$$\begin{array}{r}
 3 \times (5x + 5y = 8z) \\
 5 \times (-3x + 2y = -2z) \\
 \hline
 25y = 14z
 \end{array}$$

$$\Rightarrow z = \frac{25}{14} y$$
 ... (iii)

Putting eq. (iii) in eq. (ii), we get

$$\Rightarrow x = \frac{13}{7} y$$
 ... (iv)

$$\therefore \text{Required value} = \frac{\frac{13}{7}y + \frac{25}{14}y}{y} = \frac{51}{14}$$

63. (C) LCM of 3, 4, 6 = 12

Least three digit number multiple of 12 is 108.

$$3 - 1 = 4 - 2 = 6 - 4 = 2$$

All has common difference 2.

Then, subtract 2 from 108

$$N = 108 - 2 = 106$$

$\therefore$  When 106 is divided by 7, the remainder is 1.

64. (A)  $\frac{4 + \frac{1}{2} \times 10^2 \div \sqrt{216 + 409} \times 4^5}{(60\% \text{ of } 800 \div 16) \div 10}$

$$\begin{aligned}
 &= \frac{4 + \frac{1}{2} \times \frac{100}{25} \times 1024}{\left(\frac{3}{5} \times 50\right) \times \frac{1}{10}} \\
 &= \mathbf{684}
 \end{aligned}$$

65. (D) Let distance travelled and time taken by boat be  $D$  and  $T$ .

ATQ.,

$$x + y = \frac{D}{T} \dots (i) \text{ and } x - y = \frac{D}{2T} \dots (ii)$$

solving equation (i) and eq. (ii) we get,

$$x = \frac{3D}{4T} \text{ and } y = \frac{D}{4T}$$

$$\Rightarrow \frac{x}{y} = \frac{3D}{4T} \times \frac{4T}{D} = \frac{3}{1}$$

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

66. (A) Let the monthly incomes of two persons is  $8x$  and  $11x$  respectively.

ATQ.,

$$\frac{8x - 2000}{11x - 2000} = \frac{14}{23}$$

$$\Rightarrow 184x - 46000 = 154x - 28000$$

$$\Rightarrow 30x = 18000$$

$$\Rightarrow x = 600$$

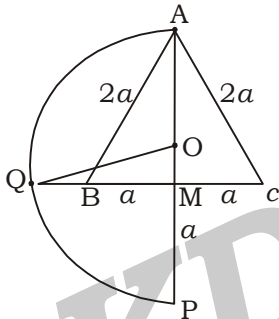
So, the difference between their income =  $3 \times 600$

$$= \mathbf{₹ 1800}$$

67. (A) Let the number of people = 100  
 Now, the number of persons who denotes the moeny in starting = 60  
 So, the collected money =  $60 \times 600 = 36000$   
 $\Rightarrow$  Total money  $\times 75\% = ₹ 36000$   
 $\Rightarrow$  Total money = ₹ 48000  
 $\therefore$  Per head contribution by the remaining people =  $\frac{12000}{40} = ₹ 300$

68. (C) Let he purchase 100 kg fruits at the rate ₹1 per kg.  
 Now, Initial S.P of fruits =  $100 \times \frac{115}{100} = ₹115$   
 So, S.P of fruits when 20% fruits rotted  
 $= 80 \times \frac{115}{100} \times \frac{110}{100} = ₹101.2$   
 Now, new profit percent  
 $= \frac{101.2 + 100}{100} \times 100 = 1.2\%$   
 $\therefore$  Required change =  $(15 - 1.2)\% = 13.8\%$

69. (D)



Let the each side of equilateral  $\Delta ABC = 2a$   
 So,  $BM = MC = MP = a$   
 Let O be centre of semi-circle with radius r.  
 Now, Diameter of semi-circle (AP)

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

$$= a(\sqrt{3} + 1)$$

$$\therefore \text{Radius } (r) = a \left( \frac{(\sqrt{3} + 1)}{2} \right)$$

Now,  $OM = OP - MP$

$$\Rightarrow OM = a \left( \frac{(\sqrt{3} + 1)}{2} \right) - a$$

$$\Rightarrow OM = a \left( \frac{(\sqrt{3} - 1)}{2} \right)$$

In  $\Delta QMO$ ,  
 $QM^2 = OQ^2 - OM^2$

$$\Rightarrow QM^2 = \left[ a \left( \frac{(\sqrt{3} + 1)}{2} \right) \right]^2 - \left[ a \left( \frac{(\sqrt{3} - 1)}{2} \right) \right]^2$$

$$\Rightarrow QM^2 = a^2 \times \sqrt{3}$$

A.T.Q,

Area of square whose side MQ (T) =  $\sqrt{3} a^2$

And Area of  $\Delta ABC$  (S) =  $\frac{\sqrt{3}}{4} \times (2a)^2 = \sqrt{3} a^2$

$\therefore$  Relation between T and S is  
**T = S**

70. (C) A.T.Q.,

Sum of the roots of equation

$$(\tan\alpha + \tan\beta) = \frac{-11}{5}$$

Product of the roots  $(\tan\alpha \cdot \tan\beta) = \frac{21}{5}$

We have,

$$\tan(\alpha + \beta) = \frac{\tan\alpha + \tan\beta}{1 - \tan\alpha \cdot \tan\beta}$$

$$\Rightarrow \tan(\alpha + \beta) = \frac{-11}{1 - \frac{21}{5}}$$

$$\Rightarrow \tan(\alpha + \beta) = \frac{-11}{\frac{5}{16}} = \frac{11}{16}$$

71. (D)  $x = 1 + \sqrt{3} + \sqrt{5}$

$$\Rightarrow x - 1 = \sqrt{3} + \sqrt{5}$$

$$\Rightarrow x^2 + 1 - 2x = 8 + 2\sqrt{15}$$

$$\Rightarrow x^2 - 2x - 7 = 2\sqrt{15}$$

$$\Rightarrow x^4 + 4x^2 + 49 - 4x^3 + 28x - 14x^2 = 60$$

$$\Rightarrow x^4 - 4x^3 - 10x^2 + 28x = 11$$

$$\Rightarrow x^4 - 4x^3 - 10x^2 + 28x - 10 = 1$$

72. (C) Sales of A in 2009 =  $24000 \times \frac{11}{10} \times \frac{6}{5} \times$

$$\frac{11}{10}$$

$$= 34848$$

$$\text{Required difference} = 58080 - 34848$$

$$= 23232$$

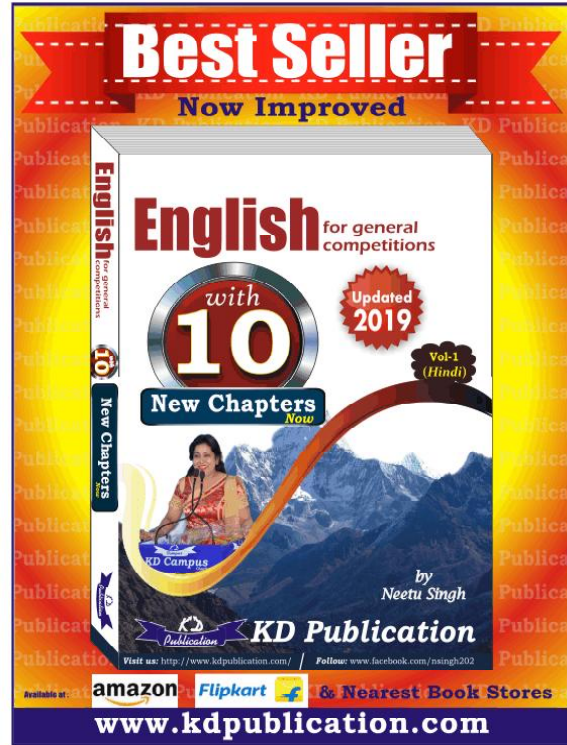
73. (A) Let the growth percentage in 2009 be P. ATQ.,
- ATQ.,  $33902 = 20000 \times \frac{115}{100} \times \frac{11}{10} \times \left(\frac{100+P}{100}\right)$   $47520 = 30000 \times \left(1 + \frac{x}{100}\right) \times \left(1 + \frac{x}{100}\right) \times \left(\frac{11}{10}\right)$
- $\Rightarrow 134 = 100 + P$   $\Rightarrow \frac{144}{100} = \left(1 + \frac{x}{100}\right)^2$
- $\Rightarrow \mathbf{P = 34\%}$   $\Rightarrow \frac{12}{10} = 1 + \frac{x}{100}$
74. (B) Required sale =  $24000 \times \frac{11}{10} \times \frac{6}{5} \times \frac{11}{10} \times \frac{5}{4}$   $\Rightarrow x = 20\%$
- = 43560**
75. (D) Let the growth percentage of C in 2006 and 2007 be x. Sale in 2006 =  $30000 \times \frac{6}{5} = \mathbf{36000}$

## MEANINGS IN ALPHABETICAL ORDER

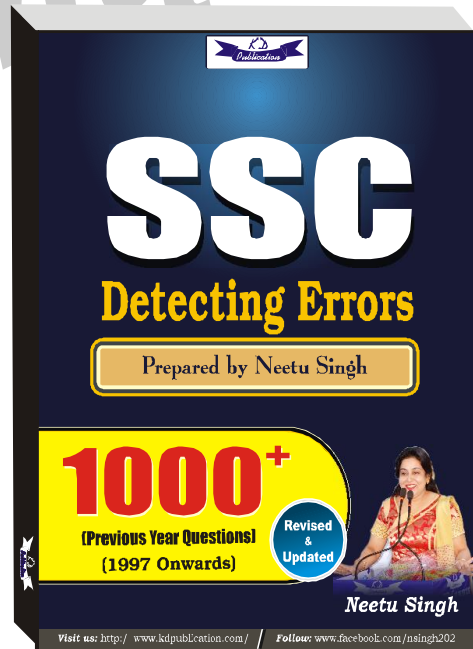
Word	Meaning in English	Meaning in Hindi
Antediluvian	very old or old-fashioned	पुराना
Antiquated	very old and no longer useful or accepted	अप्रचलित
Entangle	to get someone involved in a confusing or difficult situation	उलझाना
Eavesdrop	to listen secretly to what other people are saying	छिपकर बातें सुनना
Feign	to pretend to feel or be affected by something	दुग करना
Hydroplane	when a car goes out of control and skims along the surface of a wet road	जब फिसलन से कार अनियंत्रित हो जाए
Hoax	to trick or deceive someone	छल
Inconspicuous	not very easy to see or notice	अप्रकट
Mendacity	lack of honesty	झूठ, असत्य
Nonsectarian	not affiliated with or restricted to a particular religious group	गैर-साम्प्रदायिक
Parched	very dry especially because of hot weather and no rain	सूखा
Prevarication	to avoid telling the truth by not directly answering a question	वाकछल
Reconnoiter	to go to a place or area in order to find out information about a military enemy	अन्वेषण
Sophisticated	attractive or fashionable	परिष्कृत
Shoddy	inferior, imitative, or pretentious articles	तुच्छ
Tactile	relating to the sense of touch	स्पर्शनीय, महसूस होने वाला
Tonsillitis	a condition in which a person's tonsils are painful and swollen	गले का एक रोग
Veracity	truth or accuracy	सच्चाई

**SSC MOCK TEST - 206 (ANSWER KEY)**

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



76. (D) No error
77. (B) Change 'was' into 'were' because here the subject is 'nine people' which is plural, so the verb will also be plural.
90. (C) 'It is time' is followed by  $V_2$ .
91. (B) Indistinguishable one from the other.



**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**