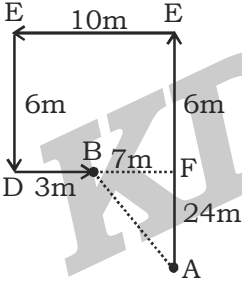


**SSC MOCK TEST – 208 (SOLUTION)**

1. (B) Just as a lamp eliminates darkness, so also water eliminates thirst.
2. (D) Menu lists all the food items in a restaurant. Similarly catalogue is a list of all the books in a library.
3. (D)  $6^3 + 6 = 222$   
 $7^3 + 7 = 350$
4. (B) Here, all except Peel are different forms of cooking.
5. (B) This is the only group containing a vowel.
6. (A) Each of the numbers except 48, is one more than the square of a certain number
7. (A) 4, 2, 1, 5, 3
  4. Miniature
  2. Minimalis
  1. Miniscule
  5. Ministerial
  3. Minority
8. (A) bbcca/ccaab/aabbc/bbcca
9. (A) aabbbb/aaabbbb/aaaa
10. (D)
 



In triangle ABF

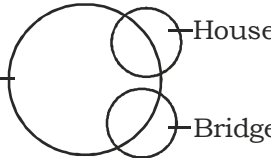
$$AB = \sqrt{(AF)^2 + (FB)^2}$$

$$AB = \sqrt{(24)^2 + (7)^2} = 25 \text{ m. (N.W)}$$
11. (D) Using the correct symbols, we have:  
Given expression =  $18 \div 3 \times 9 - 8 + 6$   
=  $6 \times 9 - 8 + 6$   
=  $54 - 8 + 6$   
=  $60 - 8 = 52$
12. (B)  $2 \times 6 - 6 = 6$   
 $6 \times 5 - 5 = 25$   
 $25 \times 4 - 4 = 96$   
 $96 \times 3 - 3 = 285$

- $$285 \times 2 - 2 = 568$$
- $$568 \times 1 - 1 = 567$$
13. (C)  $N \xrightarrow{-3} K \xrightarrow{-3} H \xrightarrow{-3} E \xrightarrow{-3} B$   
 $5 \xrightarrow{+2} 7 \xrightarrow{+3} 10 \xrightarrow{+4} 14 \xrightarrow{+5} 19$   
 $V \xrightarrow{-2} T \xrightarrow{-2} R \xrightarrow{-2} P \xrightarrow{-2} N$
  14. (B) The letters of the given word are written in a reverse order and then each letter is moved one step backward to obtain the code. Reversing the order of letters in NORTH, we get HTRON. Thus we have:  
The required code is GSQNM.
 

H	T	R	O	N
-1↓	-1↓	-1↓	-1↓	-1↓
G	S	Q	N	M
  15. (B)
  16. (D)  $6 \times 8 + 3 = 51$   
 $15 \times 4 + 5 = 65$   
 $20 \times 5 + 20 = 120$
  17. (B)  $(56 + 15) - (22 + 8) = 41$   
 $(46 + 9) - (10 + 6) = 39$   
 $(34 + 11) - (14 + 6) = 25$
  18. (B) A → D  
B → E  
N → O
  19. (D)
 

Brick



Some houses and some bridges are made of bricks.
  20. (D) None follows
  21. (D)
  22. (C)
  23. (C)
  24. (C)
  25. (C) R O P E  
**85, 89, 88, 20**
  29. (A) **City International Airport**  
Raipur – Swami Vivekanand Airport  
Udaipur – Maharana Pratap Airport  
Lucknow – Choudhary Charan Singh

30. (B) Phthalocyanine ( $H_2Pc$ ) is valuable in catalysis, organic solar cells and photodynamic therapy. Quinacridone ( $C_{20}H_{12}N_2O_2$ ) has extensive use in industrial colorant applications such as burst outdoor paints, inkjet printer ink and colour laser printer toner. Alizarin ( $C_{14}H_8O$ ) has been used as a prominent red dye, principally for dyeing textile fabrics. In 1869, it became the first natural dye to be produced synthetically.
31. (B) An initial public offering (IPO) refers to the process of offering shares of a private corporation to the public in a new stock issuance. Public share issuance allows a company to raise capital from public investors.
32. (D) **Author** **Books**  
 Anita Desai Clear Light of Day, The Artist of Disappearance, The Village By Sea and The Zigzag Way etc.  
 Arundhati Roy The God of Small Things, The End of Imagination, The Cost of Leaving and War Talk etc.  
 Khushwant Singh Train to Pakistan, A History of Sikhs, The Company of Women and The End of India etc.
33. (C) Iceland Score the top position in the Kids Rights Index 2019 followed by Portugal out of 181 countries.
37. (C) A Spreadsheet is an interactive computer application for organization analysis and storage of data in tabular form. Spreadsheets developed as computerized analogs of paper accounting worksheets. Word Processor a program or machine for storing manipulating and formatting text entered from a keyboard and providing a printout. Shareware is a type of proprietary software which is initially provided free of charge to users, who are allowed and encouraged to make and share copies of the program.
38. (B) IPL 2019 was the 12 session of IPL. It was Double round - Robin and Knock out format. Mumbai has won its 4th title and Chennai Super Kings was the runner up. Andre Russell (510 runs and 11 wickets) was the player of series. David Warner (692) has secured the most runs and Imran Tahir (26) has taken the most wickets.
40. (A) Aruna Asaf Ali is remembered for hoisting the Indian Flag at Gowalia Tank maidan in Bombay during the Quit India Movement, 1942. Vijaya Laxmi Pandit was the first female President of United Nations General Assembly.
41. (B) Mohana Singh is one of the first female pilot of India She was declared as the combat pilot along with Bhawana Kanth and Avani Chaturvedi.
43. (A) Supply is the amount of a resource that firms, producers, labourers, providers of financial assets or other economic agents are willing and able to provide to the marketplace or directly to another agent in the marketplace.
45. (C) Alva Myrdal was a prominent leader of the disarmament movement. She along with Alfonso Garcia Rabales, received the Nobel Peace Prize in 1982. Jane Addams received the Nobel Peace Prize in 1931. Jody Williams received the Nobel Peace Prize in 1997.
46. (B) **Date** **Day**  
 24 January National Girl Child Day  
 20 February World Day of Social Justice  
 14 April B.R. Ambedkar Remembrance Day
47. (C) Vitamin C is useful to form collagen and to make skin, tendons, ligaments, blood vessels and to repair and maintain cartilage, bones, teeth and to heal wounds. Vitamin B helps to prevent infections and support or promote cell growth. Vitamin A is a fat soluble vitamin that is good for healthy vision, skin, bones and other tissues in the body.
48. (C) Article 325 – No person to be ineligible for inclusion in or to claim to be included in a special, electoral roll on grounds of religion, race, caste or sex.

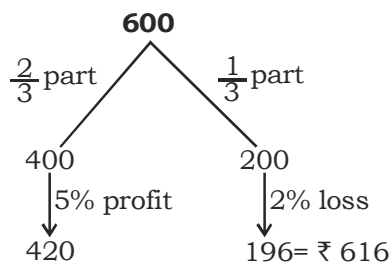
Article 321 – Power to extend functions of Public Service Commissions.

Article 335 – Claims of Scheduled Castes and Scheduled Tribes to Services and Posts.

51. (B) Total seats = 10000  
 Ticket sold = (10000 – 100) = 9900  
 According to the question,  
 Total revenue.

$$\begin{aligned}
 &= 9900 \times \frac{20}{100} \times 10 + 9900 \times \frac{80}{100} \times 20 \\
 &= 9900 \times 2 + 9900 \times 16 \\
 &= 9900 (2 + 16) \\
 &= ₹ 178200.
 \end{aligned}$$

52. (A) Let total consignment is 600 units and the value of 1 unit is =  $1 \times 600 = ₹ 600$ .  
 According to question.



CP of consignment = 600  
 SP of consignment = 616  
 16 units → 400  
 1 unit →  $\frac{400}{16}$

$$600 \text{ units} \rightarrow \frac{400}{16} \times 600 = 15000$$

Value of consignment = ₹ 15000

53. (B) Sum of the 12 years age = ₹ 100,000  
 sum of the 18 years age,

$$\Rightarrow P + \frac{P \times R + T}{100}$$

$$\Rightarrow 100,000 + \frac{100,000 \times 6 \times 6}{100}$$

$$\Rightarrow 100,000 + 3600 \Rightarrow 136,000$$

Total expenses,

$$\Rightarrow 2500 + 500 = 3000 \text{ s}$$

Total expenses,

$$= 3000 \times 6 = ₹ 18,000$$

Amount attained,

$$\Rightarrow 136,000 - 18,000 = 1,18,000$$

54. (B) Rate% = 10%, time = 1 year

**Case (I):** When interest is calculated yearly rate% = 10%

**Case (II):** When interest is calculated half yearly.

$$\Rightarrow \text{New Rate\%} = \frac{10}{2} = 5\%$$

$$\text{Time} = 1 \times 2 = 2 \text{ years}$$

$$\Rightarrow \text{Effective Rate\%} = 5 + 5 + \frac{5 \times 5}{100}$$

$$= 10.25\%$$

$$\text{Difference in Rates} = (10.25 - 10\%)$$

$$= 0.25\%$$

According to the question.

$$0.25\% \text{ of sum} = ₹ 180$$

$$\text{Sum} = \frac{180}{0.25} \times 100 = ₹ 72,000$$

55. (D) Milk : Water =  
 1<sup>st</sup> (5 : 2 = 7) × 5 × 3  
 2<sup>nd</sup> (4 : 1 = 5) × 7 × 2  
 3<sup>rd</sup> (4 : 1 = 5) × 7 × 1

$$\text{Or, } (75 : 30) \times \frac{1}{3} (56 : 14) \times \frac{1}{2} (28 : 7) \times \frac{1}{7}$$

$$\text{Or, } 25 : 10$$

$$28 : 7$$

$$4 : 1$$

$$57 : 18 = 75$$

% of water in mixture

$$= \frac{18}{75} \times 100 = 24\%$$

56. (C) Number A : B : C = 3 : 2 : 5

$$\text{Let } A = 3x, B = 2x, C = 5x$$

$$\text{then } (1000 \times 3x) + (500 \times 2x) + (200 \times 5x) = 25000000$$

$$5000x = 25000000$$

$$x = 5000$$

$$\text{Total tickets} = 3x + 2x + 5x = 10x$$

$$= 10 \times 5000 = 50000$$

57. (C) Let a man complete piece of work in a day.

Then total work = 50 units

Then by statement 1st day

$$= \text{one man} \times 1 \text{ work / per day} = 1$$

Then by statement 2nd day  
 = two man  $\times$  1 work/per day = 2

Then by statement 3rd day  
 = 3 man  $\times$  1 work/per day = 3

Let the whole work will be completed in N day,

then total work = 1  
 + 2 + 3 + ..... + N = 50

$$\frac{N(N+1)}{2} = 50$$

$$N(N+1) = 100$$

Then N = 10 days

58. (C) Distance =  $20 \times 3 = 60$   
 when 1 hour late then reducing time  
 =  $3 - 1 = 2$   
 Then increasing speed

$$= \frac{60}{2} = 30 \text{ km/h}$$

59. (A)  $\frac{334 \times 545 \times 7p}{3340}$   
 $\Rightarrow \frac{334 \times 545 \times 7p}{334 \times 10} \Rightarrow \frac{109 \times 7p}{2}$

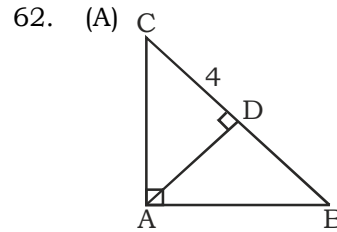
Go through by option take 2

$$\Rightarrow \frac{109 \times 72}{2} = 2$$

60. (C)  $\frac{1}{1+2^{a-b}} + \frac{1}{1+2^{b-a}}$   
 $= \frac{1}{1+2^{a-b}} + \frac{1}{1+2^{-(b-a)}}$   
 $= \frac{1}{1+2^{a-b}} + \frac{2^{a-b}}{2^{a-b}+1} = \frac{1+2^{a-b}}{1+2^{a-b}} = 1$

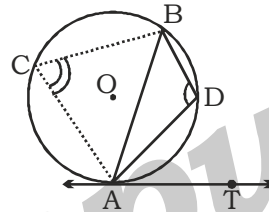
61. (D)  $\frac{1}{a^2+ax+x^2} - \frac{1}{a^2+ax+x^2} + \frac{2ax}{a^4+a^2x^2+x^4}$   
 $= \frac{a^2-ax+x^2-a^2-ax-x^2}{(a^2+x^2+ax)(a^2+x^2-ax)} + \frac{2ax}{a^4+a^2x^2+x^4}$   
 $= \frac{-2ax}{(a^2+x^2)^2-(ax)^2} + \frac{2ax}{a^4+x^4+a^2x^2}$   
 $= \frac{-2ax}{a^4+x^4+2x^2a^2-a^2x^2} + \frac{2ax}{a^4+x^4+a^2x^2}$

$$= \frac{-2ax}{a^4+x^4+x^2a^2} + \frac{2ax}{a^4+x^4+a^2x^2} = 0$$



We know that,  
 $AD^2 = CD \times BD = 4 \times 3 = 12$   
 $AD = 2\sqrt{3}$

63. (B) Let take a point 'C' on perimeter of circle,  
 Then  $\angle BAT = \angle BCA = 50^\circ$   
 (Alternate segment theorem)



In cyclic quadrilateral

$\square ABCD$

$$\angle D = 180 - \angle C$$

(In a cyclic quadrilateral the sum of opposite angles become  $180^\circ$ )

$$\text{Then } \angle D = 180^\circ - 50^\circ = 130^\circ$$

64. (B) According to the question batting average of 30 innings is = 40 runs  
 Sum of run to 30 innings is =  $40 \times 30 = 1200$   
 Let his highest score is = x  
 Lowest score is = y  
 $\therefore x - y = 100$  ....(i)  
 If these two innings are not included then the average of 28 innings is = 38 runs  
 Sum of runs to 28 innings is =  $28 \times 38 = 1064$   
 $\therefore x + y = 1200 - 1064$   
 $x + y = 136$  ....(ii)  
 Solve equation (i) and (ii)  
 $x = 118$   
 $x = 18$   
 $\therefore$  The lowest score of the player = 18 runs

65. (C) We know,  
 LCM  $\times$  HCF = Ist No.  $\times$  IInd No.  
 Let Ist No. = k  
 IInd No. = 4k  
 $k \times 4k = 21 \times 84$   
 $k = 21$   
 Then No = 21, 84  
 So, larger number = 84

66. (D)  $A : B : C = \frac{1}{4} : \frac{1}{3} : \frac{1}{6}$   
 Ratio of share of A, B and C  

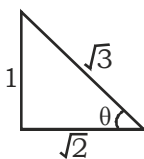
A	:	B	:	C
Capital	3x	4x	:	2x

 Total capital invested by A in 1 year  
 $= 3x \times 4 + 1.5x \times 8 = 24x$   
 Total capital invested by B in 1 year  
 $= 4x \times 6 + \frac{4x}{3} \times 6 = 32x$   
 Total capital invested by c in 1 year  
 $= 2x \times 12 = 24x$   

A	:	B	:	C
Capital	24x	32x	:	24x
	3x	4x	:	3x

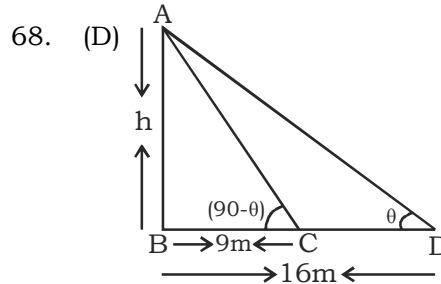
 According to the question,  
 $(3x \times 4x + 3x) = 14000$   
 $10x = 14000$   
 $x = 1400$   
 Hence, profit and A =  $1400 \times 3 = ₹ 4200$   
 Profit of B =  $1400 \times 4 = ₹ 5600$   
 Profit of C =  $1400 \times 3 = ₹ 4200$

67. (D)  $6 \sin^4 \theta + 3 \cos^4 \theta = 2$   
 $\Rightarrow 6 \sin^4 \theta + 3(1 - \sin^2 \theta)^2 = 2$   
 $\Rightarrow 6 \sin^4 \theta + 3 + 3 \sin^4 \theta - 6 \sin^2 \theta = 2$   
 $\Rightarrow 9 \sin^4 \theta - 6 \sin^2 \theta + 1 = 0$   
 $\Rightarrow (3 \sin^2 \theta - 1)^2 = 0$   
 $\Rightarrow 3 \sin^2 \theta = 1$   
 $\sin \theta = \frac{1}{\sqrt{3}}$



Now,  $(7 \operatorname{cosec}^6 \theta + 8 \sec^6 \theta)^{1/3}$

$$\begin{aligned}
 &= \left( 7 \times (\sqrt{3})^6 + 8 \left( \frac{\sqrt{3}}{\sqrt{2}} \right)^6 \right)^{1/3} \\
 &= (7 \times 27 + 8 \times \frac{27}{8})^{1/3} \\
 &= (27 \times 8)^{1/3} = 6
 \end{aligned}$$



AB = Pillar  
 BC = 9 metres  
 BD = 16 metres  
 $\angle ADB = Q$   
 In  $\triangle ABC$ ,

$$\tan(90 - \theta) = \frac{AB}{BC}$$

$$\cot \theta = \frac{AB}{BC} = \frac{h}{9} \quad \dots(i)$$

In  $\triangle ABD$ ,

$$\tan \theta = \frac{h}{16} \quad \dots(ii)$$

By multiplying equation (i) and (ii)

$$\tan \theta \cdot \cot \theta = \frac{h}{9} \times \frac{h}{16}$$

$$\Rightarrow \frac{h^2}{144} = 1$$

$$\Rightarrow h^2 = 144$$

$$h = \sqrt{144}$$

$$h = 12 \text{ metres}$$

69. (D) Radius of the base of conical shape = r cm

$\therefore$  Radius of base of cylinder =  $\frac{r}{3}$  cm

Volume of water = volume of cone,

$$= \frac{1}{3} \pi r^2 h = \frac{1}{3} \pi r^2 \times 24 = 8\pi r^2 \text{ cm}^3$$

Volume of cylinder = volume of water

$$\pi \left( \frac{r}{3} \right)^2 \times H = 8\pi r^2$$

$$H = 9 \times 8 = 72 \text{ cm}$$

70. (B) Volume of cylinder =  $\pi r^2 h$

$$= \frac{22}{7} \times (3.5)^2 \times 7 = 269.5$$

Remaining volume =  $269.5 - 9.75 = 259.75$

Volume of one bearing

$$= \frac{4}{3} \times \frac{22}{7} \times (1)^3 = 4.19$$

Number of bearings

$$= \frac{259.75}{4.19} = 61.99 = 62 \text{ (approx)}$$

71. (C) A.T.Q,

Suppose  $x = y = 0$ , then  $Z^3 = 3$ ,

$P = Z$ ,  $Q = Z$  and  $R = -Z$ ,

Putting these values in below given equation,

$$P^3 + Q^3 + R^3 - 3PQR = Z^3 + Z^3 - Z^3 + 3Z^3$$

$$= 4Z^3$$

Putting  $Z^3 = 3$ ,

$$P^3 + Q^3 + R^3 - 3PQR = 12$$

72. (A) Number of students who enrolled in N.C.C Activity = 15% of 1200

$$= 1200 \times \frac{15}{100} = 180$$

73. (C) Total number of students enrolled in debating club and HRD club

$$= (13 + 11)\% \text{ of } 1200$$

$$= 24\% \text{ of } 1200$$

$$= 1200 \times \frac{24}{100} = 288$$

74. (D) Required percentage =  $\frac{22}{21} \times 100 = 104.76\%$

75. (A) Required ratio =  $\frac{18 + 21}{13} = \frac{39}{13} = \frac{3}{1}$

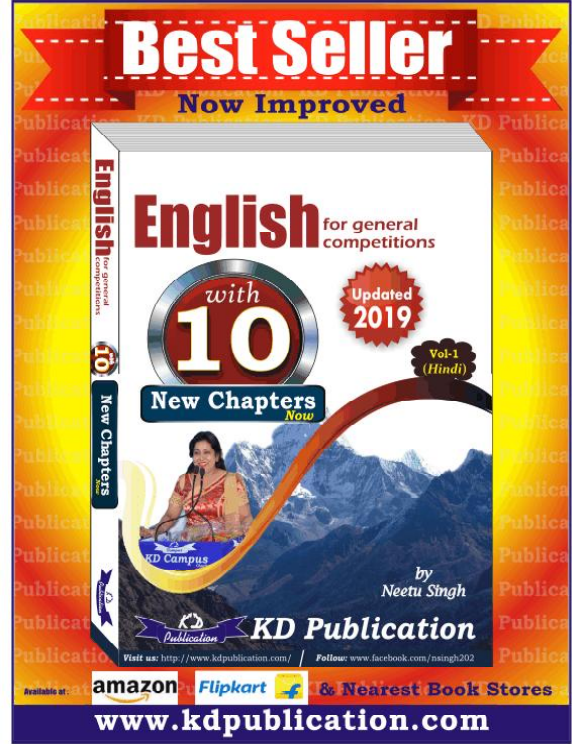
## MEANINGS IN ALPHABETICAL ORDER

Word	Meaning in English	Meaning in Hindi
Beguile	to trick or deceive (someone)	छलना
Boisterous	very noisy and active in a lively way	शोरगुल
Ceremonious	formal and serious , suitable for a ceremony	औपचारिक
Dissemble	to hide your true feelings, opinions, etc.	छिपाना
Fatuous	foolish or stupid	मूर्खतापूर्ण
Fawning	seeking or used to seek approval or favour by means of flattery	चापलूस
Futile	having no result or effect , pointless or useless	निरर्थक
Impeccable	free from fault or error	दोषरहित
Judicious	having or showing good judgement	बुद्धिमान
Preposterous	very foolish or silly	मूर्खतापूर्ण
Reckon	to think or suppose (something) : to believe that (something) is true or possible	अनुमान करना
Turbulent	moving in an irregular or violent way	अशांत
Tempestuous	full of strong emotions (such as anger or excitement)	प्रचण्ड (गुस्सा व उत्साह)
Temper	the tendency of someone to become angry	गुस्सा
Trifle	something that does not have much value or importance	तुच्छ



**SSC MOCK TEST - 208 (ANSWER KEY)**

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



76. (B) Remove 'be able to'. Use of could not and able together will make the sentence superfluous.
77. (C) Remove almost. 'As.....as' is the correct pair of conjunction.
78. (D) No error
79. (C) 'Favourable is the correct option. 'Sailed smoothly' in the sentence indicates that favourable is the appropriate use. Favourable means giving a result that helps, benefits or shows approval of someone (अनुकूल)
80. (D) Tamper is the correct option. Tamper means to interfere or change in a secret or incorrect way. (छेड़ना, हस्तक्षेप करना)
88. (A) 'has been thrust' is the correct option. The sentence is in passive voice and we use V<sup>3</sup> in Passive voice.
- $$\frac{V_1}{Thrust} \quad \frac{V_2}{Thrust} \quad \frac{V_3}{Thrust}$$
- Thrust means a strong continued pressure. (जोर डालना)

**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**