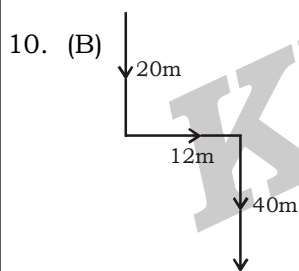


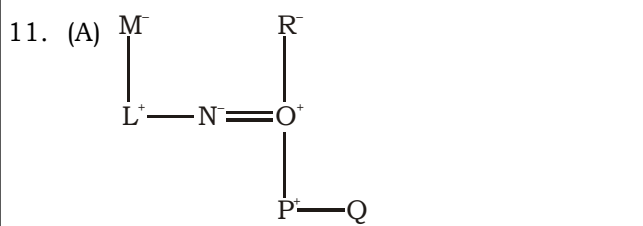
**SSC MOCK TEST – 177 (SOLUTION)**

- (D) As,  $37 : 50 \rightarrow 6^2 + 1 : 7^2 + 1$   
Similarly,  $101 : 122 \rightarrow 10^2 + 1 : 11^2 + 1$
- (C) As,  $E \rightarrow G$  (Alphabet of next prime position)  
 $\begin{matrix} 5 & & 7 \end{matrix}$   
Similarly,  $K \rightarrow Q$   
 $\begin{matrix} 11 & & 17 \end{matrix}$
- (D) As, Hexagon has double no. of sides as compared to triangle.  
Similarly, **Octagon** has double no. of sides as compared to square.
- (B) Except **hat**, others are used to keep something.
- (C)  $179 : 36 \rightarrow 1 \times 7 \times 9 = 63 \rightarrow 36$   
 $243 : 42 \rightarrow 2 \times 4 \times 3 = 24 \rightarrow 42$   
**473 : 84**  $\rightarrow 4 \times 7 \times 3 = 84 \rightarrow 84$   
 $924 : 27 \rightarrow 9 \times 2 \times 4 = 72 \rightarrow 27$

- (A)  $S \xrightarrow{-1} R \xrightarrow{+2} T$   
 $B \xrightarrow{+2} D \xrightarrow{-1} C$   
 $I \xrightarrow{+2} K \xrightarrow{-1} J$   
 $N \xrightarrow{+2} P \xrightarrow{-1} O$
- (D) **24135**
- (B)  $\begin{matrix} 4 & 9 & 29 & 119 & 599 \\ \uparrow & \uparrow & \uparrow & \uparrow & \uparrow \\ \times 2+1 & \times 3+2 & \times 4+3 & \times 5+4 & \end{matrix}$
- (C)  $A \xrightarrow{+2} C \xrightarrow{+3} F \xrightarrow{+4} J \xrightarrow{+5} O$   
 $S \xrightarrow{-2} Q \xrightarrow{-3} N \xrightarrow{-4} J \xrightarrow{-5} E$

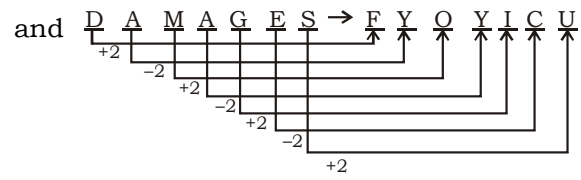


$\therefore$  He started from **North-West direction**.

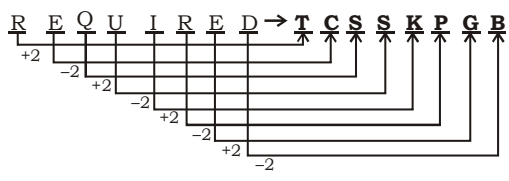


$\therefore$  **N is sister of L.**

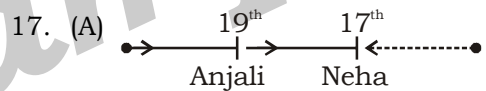
- (A) **FAINTING**
- (C) As,  $S O C I A L \rightarrow U M E G C J$   
 $\begin{matrix} +2 & & -2 & & +2 & & -2 & & +2 & & -2 \\ \uparrow & & \uparrow & & \uparrow & & \uparrow & & \uparrow & & \uparrow \end{matrix}$



Similarly,



- (B)  $22 \times 17 + 15 - 3 \div 8$   
After inter-changing the signs as per given details,  
 $22 - 17 \times 15 \div 3 + 8$   
**= -55**
- (B) As,  $11^2 - 4^2 - 8^2 = 41$   
and,  $8^2 - 3^2 - 5^2 = 30$   
Similarly,  $14^2 - 7^2 - 6^2 = 111$
- (C) As,  $6 \times 36 \times 7 = 1512$   
and,  $9 \times 7 \times 8 \times 3 = 1512$   
Similarly,  $21 \times 1 \times 3 \times 6 \times x = 1512$   
 $\Rightarrow x = \frac{1512}{21 \times 1 \times 3 \times 6} = 4$



$\therefore$  Required position =  $(69 - 19 - 17) + 1 = 34^{th}$



- I. True  
II. True  
 $\therefore$  **Both follow.**
- (A) **240kg**
- (D)
- (A)
- (C)
- (A)
- (A)
- (D) **S H A R E**  
 $\begin{matrix} \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ 97, & 95, & 34, & 13, & 56 \end{matrix}$
- (B) India post released a special cover to mark Global Tiger Day at Bandipur in Karnataka on July 29. In all 6,500 covers have been printed, each costing ₹25. The envelopes with a pictorial representation of tigers will be used by the forest Department for its postal communication.

27. (B) Bengali writer Ramapada Chaudhary, whose story Abhimanyu was made into a Hindi movie Ek Doctor Ki Maut died in Kolkata on July 29, 2018.
28. (C) HDFC received the award for being the 'best performing primary lending institution' under the credit-linked subsidy scheme for the EWS (Economically Weaker Sections) and LIG (Low Income Group) category and the second best in the Middle Income Group (MIG) category under the 'Pradhan Mantri Awas Yojana' (PMAY). Renu Sud Kamad, MD HDFC recived the awards from Prim Minister Narendra Modi.
29. (C) Australia's wendy tuck became the first female skipper to win a round-the-world yacht race, after clinching overall victory in the clipper, 2017-18 event. Tuck and her Sanya serenity coast tream started the 13<sup>th</sup> and final round of the race at the top of the leaderboard and did enough to finish ahead of the 10 other teams.
30. (C) The India Meteorological Department has launched a system that provides information of lightning strikes across the country every 15 minutes. The information is updated on the EMD website based on data from satellite INSAT-3D.
31. (A) International Tiger Day was celebrated on July 9,2018. Global Tiger Day is celebrated every year 29 July to raise awareness about tiger conservation. In Madhya Pradesh, State Tiger foundation society of forest Department is organizing wall painting competition in 6 cities to raise awareness and support for tiger conservation.
32. (B) A powerfull earthquake had struck a popular tourist destination in Indonesia, killing at least 14 people. The 6.4 magnitude quake hit the central island of lombok just before 07:00 local time on July 29.
33. (D) "Mission Satyanistha" launched on 27<sup>th</sup> july 2018 aims at sensitizing all railway employees about the need to adhere to goods ethics and maintain high standards of integrity at work.
34. (C) India has been designated as a nodal centre for preparing flash-flood forecasts by the world meteorological. Organization (WMO). India will have to develop a customised model that can issue advance warming of floods in Vietnam, Srilanka, Myanmar and Thailand.
35. (C) The Gorenment on July 26 decided that a museum for all prime ministers of the country would be constructed in the Teen Murti Bhawan Bhawan complex that houses the Nehru Memoral Museum and Library.
36. (A) The Google has announced two new products aimed at helping customers develop and deploy intelligent device at scale. The first one was 'Edge TPU', a new hardware chip, so small that four of them can fit on a U.S. penny, Injong Rhee, VP, IOT, Google cloud, demonstrated on the stage.
37. (B) Up has signed Memorandum Of Understanding (MoU) and Bombay stock exchang (BSE) for building the capacity of the state MSME sector to raise funds from the markets and list on stock exchanges.
39. (C) On, 4 March 2014 the Government of India declares 2 June 2018 the Telangana formation Day. Telangana is the 29<sup>th</sup> state of the union of India with Hyderabad as its capital.
40. (C) 3D optical data storage technology we conclude that by using this technology we can store Terabytes, amount of data with high speed in very less space. It can bring the great revolution in the field of data recording and data reading.
41. (A) **Layers of atmosphere:** Troposphere, stratosphere, mesosphere and thermosphere, exosphere.
42. (D)
- | Year | Winners                   | Work        |
|------|---------------------------|-------------|
| 2016 | Mark Ronson<br>Bruno Mars | Uptown funk |
| 2017 | Adele                     | Hello       |
| 2018 | Bruno Mars                | 24K Magic.  |
43. (C) The author of the Novel, 'Darkness of Noon', Author koestler, the author of the Novel, 'The Great Gatsby', F. Scott Fitzgerald. The author of the Novel, "The sound and fury", willian Faulkher.
46. (A) First vaccine of small pox invented by Edward Jenner and Karl Benz was invented first practical car powered by an internal-combustion engine.
49. (A) Sodium Hydroxide, also known as lye and caustic soda, is an inorganic compound with the formula NaoH.
50. (B) Part-III of the Indian constitution talks about fundamental right were included in the constitution because they were considered essential for the development of the peresonality of every individual and to preserve human dignity. All people, irrespective of race, religion, caste or sex, have been the right to move the Supreme Court and the High Courts for the enforcement of their fundamental rights. There are seven categories of fundamental rights which are covered from Artides 12-35.

51. (B) Let the fourth proportional be  $x$ .

$$\text{Required value} = \frac{52}{143} = \frac{28}{x}$$

$$\Rightarrow x = 77$$

52. (C)  $a_1 = 8, l = 80$

Total number of terms =

$$80 = 8 + (n-1)8$$

$$\Rightarrow n = 10$$

$$\therefore \text{Required sum} = \frac{10}{2} (8 + 80) = 440$$

53. (A)  $(a - b)^2 = a^2 + b^2 - 2ab$

$$\Rightarrow (4)^2 = a^2 + b^2 - 2(36)$$

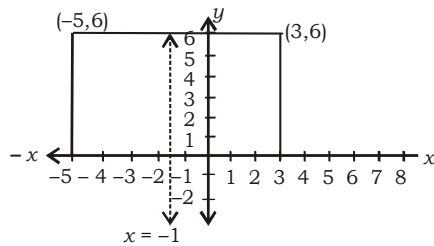
$$\Rightarrow 16 = a^2 + b^2 - 72$$

$$\Rightarrow a^2 + b^2 = 88 \dots \dots \dots (i)$$

Now,

$$\therefore a^3 - b^3 = (a - b)(a^2 + b^2 + ab) \\ = (4)(88 + 36) = 496$$

54. (C)



$\therefore$  Reflection of the point will be on  $(-5, 6)$

55. (B) Let the C.P. of goods be ₹  $x$ .

$$\text{S.P.} = ₹ (1.25x - 29)$$

$$\text{C.P.} = ₹ .91x$$

$$\text{Profit} = (1.21x - 29) - (.91x) \\ = .3x - 29$$

$$\text{Profit} = \left( \frac{.3x - 29}{.91x} \right) \times 100$$

$$\Rightarrow 25 = \left( \frac{.3x - 29}{.91x} \right) \times 100$$

$$\Rightarrow x = ₹ 400$$

$\therefore$  C.P. of goods is ₹ **400**

56. (A) Let the breath of rectangle be  $x$ .

$$l = x + 5$$

ATQ,

$$(x+5)x = 14 \times 14 + 8$$

$$\Rightarrow x^2 + 5x = 204$$

$$\Rightarrow x^2 + 5x - 204 = 0$$

$$\Rightarrow x^2 + 17x - 12x - 204 = 0$$

$$\Rightarrow (x + 17)(x - 12)$$

$\therefore x$  can be positive only

$$\therefore \text{Required length} = x + 5 \Rightarrow 12 + 5 = \mathbf{17\text{cm}}$$

57. (C)  $16^{3.2} \times 8^2 \times 64^{0.2} = 4x$

$$\Rightarrow (4^2)^{3.2} \times 4^3 \times (4^3)^{0.2} = 4x$$

$$\Rightarrow 4^{(6.4+3+0.6)} = 4x$$

Comparing both sides

$$\therefore x = 10$$

$$58. (B) -\cos(\pi - \theta) \cos(90 - \theta) - \left[ \frac{\cot(90 - \theta)}{1 + \cot^2(90 - \theta)} \right]$$

$$= \cos \theta \cdot \sin \theta - \frac{\tan \theta}{\sec^2 \theta}$$

$$= \cos \theta \sin \theta - \sin \theta \cdot \cos \theta$$

$$= 0 = \mathbf{\cos \frac{\pi}{2}}$$

59. (C)  $2\sin 15^\circ \cos 15^\circ - 4\sin^3 15^\circ \cos 15^\circ$

$$= \sin 2(15^\circ) - 2\sin^2 15^\circ \cdot \sin(15^\circ) \cdot \cos 15^\circ$$

$$= \sin 30^\circ (1 - 2\sin^2 15^\circ)$$

$$= \sin 30^\circ \cos 30^\circ$$

$$= \frac{1}{2} \cdot \frac{\sqrt{3}}{2} = \frac{\sqrt{3}}{4}$$

60. (A) Let the present age of Harsh and Deepak be  $3x : 4x$

ATQ,

$$\Rightarrow \frac{3x - 3}{4x - 3} = \frac{5}{7}$$

$$\Rightarrow 21x - 21 = 20x - 15$$

$$\Rightarrow x = 6$$

$$\text{Harsh's present age} = 3 \times 6 = 18$$

$$\therefore \text{Required age} = 18 + 18 = \mathbf{36 \text{ yrs.}}$$

61. (B) Let time taken by A to fill the tank be  $x$  hours.

$$\therefore \text{Time taken by B} = \frac{x}{2} \text{ and C} = \frac{x}{4}$$

ATQ,

$$\frac{1}{x} + \frac{2}{x} + \frac{4}{x} = \frac{1}{5}$$

$$\Rightarrow \frac{4 + 2 + 1}{x} = \frac{1}{5}$$

$$\Rightarrow \mathbf{x = 35 \text{ hrs.}}$$

62. (A) Let the C.P. be  $x$ .

$$1100 \times \left(1 - \frac{20}{100}\right) \left(1 - \frac{15}{100}\right) = x \left(1 + \frac{10}{100}\right)$$

$$\Rightarrow 1100 \times \frac{4}{5} \times \frac{85}{100} = x \left(\frac{11}{10}\right)$$

$$\Rightarrow x = \mathbf{₹ 680}$$

63. (B) ATQ,

$$4M \times 9 = 12W \times 15$$

$$M = 5W$$

Now, let the required no. of days be  $x$ .

$$4 \times 9 = x \left[ \left(6 + 10 \left(\frac{1}{5}\right)\right) \right]$$

$$\Rightarrow 36 = x \cdot 8.$$

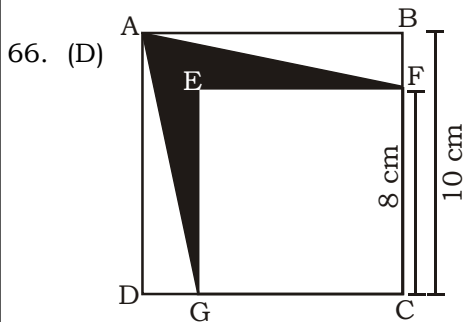
$$\Rightarrow x = \mathbf{4.5}$$

64. (C) ATQ,

$$\begin{aligned} \text{Required distance} &= (10+12) \frac{45}{60} \\ &= 22 \times \frac{3}{4} = \mathbf{16.5 \text{ km}} \end{aligned}$$

65. (B) Let the length of BC be  $x$  cm.  
ATQ,

$$\begin{aligned} \frac{\pi}{2} \left[ \left( \frac{6+x}{2} \right)^2 + (2)^2 \right] &= \pi \left( \frac{x+4}{2} \right)^2 \\ \Rightarrow \frac{\pi}{2} \left( \frac{x^2 + 12x + 52}{4} \right) &= \pi \left( \frac{x^2 + 16 + 8x}{4} \right) \\ \Rightarrow x^2 + 4x - 20 &= 0 \\ \Rightarrow x &= \frac{-b \pm \sqrt{b^2 - 4ac}}{2a} = \frac{-4 \pm \sqrt{16 - (-20)4}}{2} \\ x &= \mathbf{2(\sqrt{6} - 1)} \end{aligned}$$



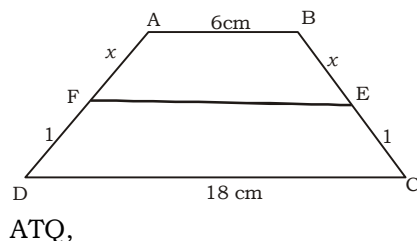
Required area

$$= 10 \times 10 - 8 \times 8 - \frac{10 \times 2}{2} - \frac{10}{2} \times 2 = \mathbf{16 \text{ cm}^2}$$

67. (D) Required amount =  $\frac{3}{10} \times 7000 \times \frac{70}{100}$   
= ₹ **14,700**

68. (A)  $A+B+C = 148 \times 3 = 144 \text{ kg}$ .....(i)  
 $A+B = 136 \times 2 = 272 \text{ kg}$ .....(ii)  
 $B+C = 156 \times 2 = 312 \text{ kg}$ .....(iii)  
Required value = III + II - I  
=  $272 + 312 - 444$   
= **140 kg**

69. (C) Let  $\frac{BE}{EC} = \frac{x}{1}$



$$\begin{aligned} 6 + \frac{12x}{x+1} + \frac{8x}{x+1} &= 18 + \frac{12}{x+1} + \frac{8}{x+1} \\ \Rightarrow \frac{6(x+1) + 20x}{x+1} &= \frac{18(x+1) + 20}{x+1} \\ \Rightarrow 26x + 6 &= 18x + 38 \\ \Rightarrow 8x &= 32 \\ \Rightarrow x &= 4 \end{aligned}$$

$$\therefore \text{Required value} = \frac{BE}{EC} = \frac{4}{1} = \mathbf{4}$$

70. (D) Length of train =  $\frac{\text{Speed of train}}{\text{Time taken to cross a man}}$

$$= \frac{144 \times \frac{5}{18}}{20} = 800 \text{ m}$$

Now let the length of platform =  $x$  m  
ATQ,

$$\begin{aligned} \frac{x+800}{36} &= 144 \times \frac{5}{18} \\ \Rightarrow x + 800 &= 36 \times 40 \\ x &= 1440 - 800 \\ &= \mathbf{640 \text{ m}} \end{aligned}$$

71. (B) Let ' $r$ ' and ' $h$ ' be the radius and height of cylinder respectively.

ATQ,  
 $r + h = 42$   
and  
 $2\pi r(r+h) = 3696$

$$\begin{aligned} \Rightarrow r &= \frac{3696}{2 \times \frac{22}{7} \times 42} \\ \Rightarrow r &= 14 \text{ cm and } h = 28 \text{ cm} \\ \text{Volume} &= \pi (14)^2 \times 28 \\ &= \mathbf{17248 \text{ cm}^3} \end{aligned}$$

72. (C) Required no. of days =  $\left( \frac{20+16}{100} \right) \times 3500$

$$\begin{aligned} &- \left( \frac{18+12}{100} \right) \times 1500 \\ &= 1260 - 450 \\ &= \mathbf{810} \end{aligned}$$

73. (C) Required ratio

$$\begin{aligned} &= \frac{1500}{100} \times 38 : \left( \frac{3500 \times 22}{100} - 1500 \times \frac{11}{100} \right) \\ &= \mathbf{114 : 121} \end{aligned}$$

74. (D) Required value =  $\frac{32}{100} \times 1500 = \mathbf{480}$

75. (A) Required value =  $(35 \times 16) + \frac{1}{5} (15 \times 11)$   
=  $560 + 33 = \mathbf{593}$

**MEANINGS IN ALPHABETICAL ORDER**

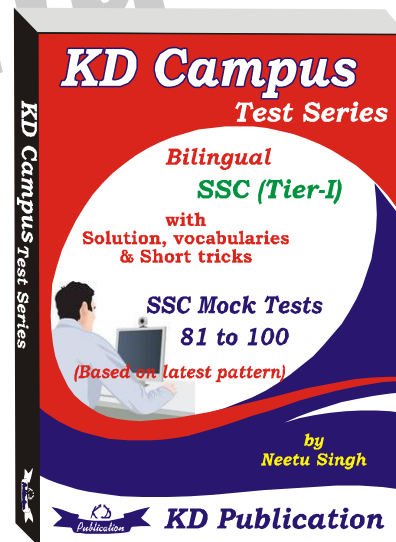
Word	Meaning in English	Meaning in Hindi
Ethereal	resembling heaven, seeming to belong to another world	स्वर्गीय
Hound	a dog, especially a type of dog that has a very good sense of smell and is trained to hunt	शिकारी कुत्ता
Beagle	a type of small dog used for hunting that has smooth black, brown, and white fur	छोटा शिकारी कुत्ता
Carouse	to drink alcohol, make noise, and have fun with other people	खूब मद्यपान करना
Frolic	to play and move about happily	उल्लास
Construe	to understand an action, event, remark, etc. in a particular way	अर्थ करना
Infer	to form an opinion from evidence	तर्क करना
Vagrant	a person who has no place to live and no job and who asks people for money	आवारा
Wanderer	to move around or go to different places usually without having a particular purpose or direction	भटकैया
Debonair	dressing and acting in an appealing and sophisticated way	विनयपूर्ण
Gourmand	a person who loves to eat and drink	चटोरा
Fugitive	running away to avoid being captured	भगोड़ा
Bale	great evil	दुष्ट
Brood	a group of young birds such as chickens that were all born at the same time	समूह
Disparage	to describe someone or something as unimportant, weak, bad, etc.	निरूत्साहित करना
Diabolical	extremely evil	शैतान
Disheveled	not neat or tidy	बिखरा हुआ
Flippant	lacking proper respect or seriousness	क्षुद्र
Fortuitous	happening by chance	आकस्मिक

**SSC MOCK TEST - 177 (ANSWER KEY)**

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



76. (A) Replace 'their' with 'there'. 'Their' is possessive Adjective of third person Plural noun or pronoun. It cannot be used as the subject. While 'there' can be used to introduce the sentence.
77. (B) Replace 'Could' with 'Can'. The sentence is in Present tense.
90. (B) 'Were seen by many as' is the correct option. According to the meaning of the sentence many (people) is appropriate use and 'much' is used for uncountable noun.
91. (A) 'Vision for health care' is the correct option. 'Vision' takes preposition 'for'.



**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**