

SSC MOCK TEST – 92 (SOLUTION)

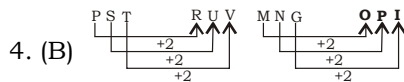
1. (A) $\sqrt{36} = 6 \Rightarrow 6 \times (6 - 1) = 30$

$\sqrt{49} = 7 \Rightarrow 7 \times (7 - 1) = 42$

2. (B) Kangaroo is the national animal of Australia and **Tiger** is the national animal of Bangladesh.

3. (D) $20 : \frac{20}{2} + 1 :: 84 : \frac{84}{2} + 1$

So, **43** is the answer.



5. (C) Except option (C), In other options the positions of each letter is increased by 1.

6. (D) Except **Madurai**, others are hill-stations.

7. (C) $128 \Rightarrow 1 + 2 + 8 = 11 \Rightarrow 1 + 1 = 2$

$786 \Rightarrow 7 + 8 + 6 = 21 \Rightarrow 2 + 1 = 3$

513 $\Rightarrow 5 + 1 + 3 = 9 \neq 6$

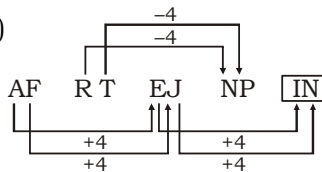
$719 \Rightarrow 7 + 1 + 9 = 17 \Rightarrow 1 + 7 = 8$

8. (B) Second number divides the first number completely.

9. (A) My father's mother is my Grandmother and her husband is **Grandfather** of me and my siblings.

10. (B) 'Moon is a source of light' - The statement doesn't mean that moon is not a source of light and also doesn't mean that light has only one source. So, **neither conclusion I nor II follows**.

11. (D)



12. (B) $5 \times 2 \times 8 = 80$

$8 \times 4 \times 3 = 96$

$7 \times 6 \times 5 = 210$

13. (B) $5^3 + 8^2 = 125 + 64 = 189$

$4^3 + 2^2 = 64 + 4 = 68$

$5^3 + 3^2 = 125 + 9 = 134$

14. (B)

15. (C) C H U R C H

3 2 4 1 6 5

16. (B) The letter 'R' of POSTER is missing in word DECOMPOSITION.

17. (C) Y $\xrightarrow{-6}$ S $\xrightarrow{-6}$ M $\xrightarrow{-6}$ G

W $\xrightarrow{-6}$ Q $\xrightarrow{-6}$ K $\xrightarrow{-6}$ E

V $\xrightarrow{-6}$ P $\xrightarrow{-6}$ J $\xrightarrow{-6}$ D

18. (D) **abc/ cba/ abc/ cba**

19. (A) $A = 1 \Rightarrow 1^3 + 1^2 + 1 = 3$

$B = 2 \Rightarrow 2^3 + 2^2 + 2 = 14$

$C = 3 \Rightarrow 3^3 + 3^2 + 3 = 39$

$D = 4 \Rightarrow 4^3 + 4^2 + 4 = 84$

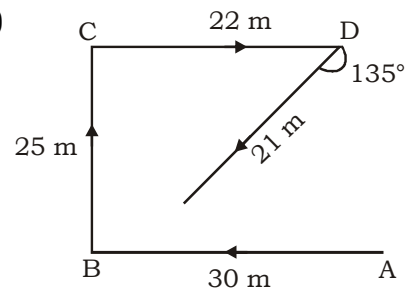
$\therefore E = 5 \Rightarrow 5^3 + 5^2 + 5 = 155$

20. (C) In option (C), after changing the signs we have,

$3 + 6 - 1 = 16 \times 2 \div 4$

$\Rightarrow 8 = 8$

21. (A)



So, Chahat is going in the **South-West** direction.

22. (D) number of triangles. = $\frac{4 \times 5}{2} = 10$

23. (B)

24. (D) There will be 5 dots opposite to 2 dots.

25. (C)

26. (D) These are seedless fruits that are formed without fertilization, e.g., Banana. Nowadays many seedless grapes, oranges and water melons are developed by horticulturists. Pomology is a branch of horticulture that deals with the study of fruits and their cultivation.

27. (A) The United Kingdom (UK) will host the 25th edition of Commonwealth Heads of Government Meeting (CHOGM) in April 2018 after a gap of over 20 years. The Commonwealth Summit is held in every two years and the position of Commonwealth Chair-in-Office will be transferred at the 2018 summit from the Prime Minister of Malta to the Prime Minister of the United Kingdom who will hold the post until the 26th CHOGM expected in 2020.

28. (D) Tenth schedule was added by the 52nd Constitutional Amendment Act, 1985. It provides for anti-defection law.

29. (A) Value of a commodity expressed in terms of money is called price. In modern times, goods are exchanged for money. The value of a commodity is its price.

30. (A) Indian Remote Sensing (IRS) satellites are used in Assessment of crop productivity, Locating groundwater resources and Mineral exploration. This system was launched in 1979 and 1981. This system is used in agriculture, water resources, forestry and ecology, geology, marine fisheries and coastal management. It is the largest constellation of the remote sensing satellites.
31. (B) Nuclear fission is a perfect example of chain reaction. In case of nuclear fission a heavy atomic nucleus (such as that of uranium) disintegrates into two nearby equal fragments with release of large amount of energy when large number of nuclei is brought close together. In such a case the neutrons released, when one nucleus splits, strikes other nuclei causing them to split and the process continues. Now atomic bomb and nuclear reactor both work on nuclear fission chain reaction but chain reaction in nuclear reactor is controlled by control rods, made up of metal cadmium or boron a neutron absorbing material, whereas in atomic bomb there is no neutron absorber. So chain reaction goes uncontrolled and is very violent.
32. (A) Devadasi is a girl dedicated to worship and service of a deity or a temple for the rest of her life. They were considered the human wife of Lord Jagannath.
33. (A) The book "Aurangzeb: The Man and the Myth" has been authored by historian Audrey Truschke that retells the complex and contested life of the sixth Mughal emperor "Aurangzeb". It is a fascinating biography of an emperor who continues to dominate the contemporary discourse on the Hindu-Muslim relationship and beyond. The book addresses Aurangzeb's concern at the time of his death that he came as a stranger and would leave as a stranger. The novel is an example of how historical biographies of complex characters can be written.
34. (D) Great Nicobar, Sundarbans and Nanda Devi are biosphere reserves declared by Govt. of India. Gulf of Kutch is not a biosphere reserve, dry sandy plain.
36. (A) The Kori Bustard or paauw (*Ardeotis kori*) of northeast and southern Africa and the great bustard (*Otis tarda*) of Europe and Asia weigh about 40-42 pounds. There is a report of a 46 lb. 4 oz. male great bustard shot in north-eastern China. It is too heavy to fly.
37. (C) The Arunachal Pradesh government has launched a new scheme "Adarsh Gram Yojana" for rural poor. The purpose of the scheme is to reach the poor people in rural areas of the state to serve them better. Under the scheme, 123 villages (comprising one village per circle) will be developed as 'Model Villages' during the fiscal year 2017-18. The state government has allocated an amount of Rs.93 crore in the Budget 2017-18 for infrastructure development and for creating employment opportunities and community assets for the people of those villages.
38. (D) As of 2014, countries that have a one-party system include the three communist states of North Korea, China and Korea, as well as Iraq. In the 20th century, one of the most prominent examples of a state with a one-party system was the Soviet Union. In a single-party state, the local constitution is commonly worded to ban the transfer of a power from the ruling party to another party by limiting either legal existence or participatory ability in elections and decision-making.
- Two-party system: A two-party system is a party system where two major political parties dominate the government. One of the two parties typically holds a majority in the legislature and is usually referred to as the majority or governing party while the other is the minority or opposition party. For example, in the United States, Jamaica, and India.
 - Multi-party system: A multi-party system is a system in which multiple political parties across the political spectrum run for national election, and all have the capacity to gain control of government offices, separately or in coalition. For example Argentina, Austria, Brazil, Denmark, Finland, France, Germany, Iceland, Tunisia and Ukraine.
39. (A) Selling cost is an element of Monopolistic Competition. Monopolistic Competition is a market structure in which many firms sell products that are similar but not identical.

41. (C) Except hydrogen, all the rest three options diesel, coal and kerosene are either naturally occurring fossil fuels or derived from them. Thus as we know naturally occurring fossil fuels and their products have high percentage of carbon which on combustion lead to discharge of oxides by carbon (CO₂ & CO) in air. This results in to heavy environmental pollution like CO₂ results in green house effect causing global warming While CO combines with haemoglobin of blood to form carboxyhaemoglobin causing death. Hydrogen fuel as such causes no pollution because on combustion with oxygen it forms water that's why it is also called future fuel.
42. (B) Battle of Wandiwash in 1760 and French were finally defeated by English. Battle of Buxar (1764) - English under Munro defeated Mir Qasim, Shuja-uddaula and Shah Alam-II.
43. (C) Sun is the star nearest to the earth. It is 150 million kilometres away from the earth. Sun has temperatures of over 15 million °C. The Sun's nearest neighbour, Alpha Centauri, is actually a triple-star system — three stars bound together by gravity.
44. (A) The hands in a human body have the most number of bones. Each hand has 27 bones. These bones are connected with muscles and tendons. Hand bones are also called as metacarpus and bones in the fingers are called as phalanges. fingers has three phalanges and thumb has two. There are 206 bones in a human body. Out of these 206 bones, 106 are in the hands and feet. Each Foot has 26 bones.
45. (C) Arun Jaitley, who is the current Finance Minister and Minister of Corporate Affairs in the Cabinet of India, has taken additional charge of the Union Ministry of Defence (MoD) on March 14, 2017. He succeeded Manohar Parrikar, who resigned from the post to take on the new role of Chief Minister of Goa. This is the 2nd time that Jaitley is holding the additional portfolio of Defence Ministry during the present NDA government. He was in-charge of the ministry earlier from 26th May to 9th November in 2014.
46. (C) According to 73rd Amendment Act, three-tier system of Panchayats exists: Village level, District Panchayat at the district level, the intermediate Panchayat which stands between the village and District Panchayats in the States where the population is above 20 Lakhs.

48. (B) Allicin is an oily, yellow liquid, which gives garlic its characteristic odour which is due to the -SO group. It also has a range of medical properties.
49. (A) Pitt's India act - 1784;
Indian Arms Act - 1878;
Ilbert Bill - 1883 - 84;
50. (B) Russia is the largest producer of fuel wood in the world because Russia has the largest cover of forests.

51. (B)

$$\begin{array}{l} A \rightarrow 30 \\ B \rightarrow 20 \\ A + B + C \rightarrow 15 \end{array} \left. \begin{array}{l} \text{-----} \\ \text{-----} \\ \text{-----} \end{array} \right\} \begin{array}{l} 2 \\ 3 \\ 4 \end{array}$$

Efficiency of C = 1 unit/hr

Required time to C for empty the tank = 60 hr

∴ Capacity of tank = 60 × 60 × 15 = **54000 l**

52. (C) $\frac{1}{1 - \cos^2 \theta} - \frac{1}{\sec^2 \theta - 1}$

$$= \frac{1}{\sin^2 \theta} - \frac{1}{\tan^2 \theta} = \operatorname{cosec}^2 \theta - \cot^2 \theta = 1$$

53. (B) Required Average = 7 - 2 = **5**

54. (B) $x = 2 - 2^{\frac{2}{3}} + 2^{\frac{1}{3}}$

$$\Rightarrow x - 2 = 2^{\frac{2}{3}} - 2^{\frac{1}{3}}$$

$$\Rightarrow (x - 2)^3 = 2^2 - 2^1 - 3.2 \left(2^{\frac{2}{3}} - 2^{\frac{1}{3}} \right)$$

$$\Rightarrow x^3 - 6x^2 + 12x - 8 = 4 - 2 - 6(x - 2)$$

$$\Rightarrow x^3 - 6x^2 + 12x - 8 = 2 - 6x + 12$$

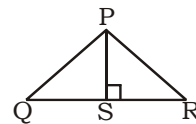
$$\Rightarrow x^3 - 6x^2 + 18x - 22 = 0$$

$$\Rightarrow x^3 - 6x^2 + 18x - 22 + 46 = 46$$

$$\Rightarrow x^3 - 6x^2 + 18x + 24 = 46$$

$$\Rightarrow x^3 - 6x^2 + 18x + 18 = **40**$$

55. (A) In right angle ΔPSQ,



$$PQ^2 = PS^2 + QS^2 \quad \dots(i)$$

In Right angled ΔPRS,

$$PR^2 = PS^2 + RS^2 \quad \dots(ii)$$

By (i) and (ii)

$$PQ^2 - PR^2 = QS^2 - RS^2$$

$$**PQ^2 - PR^2 = RS^2 - QS^2**$$

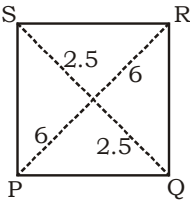
56. (A) Let the total profit be ₹ 100
After paring charity A's share

$$= 95 \times \frac{3}{5} = ₹ 57$$

If A's share is ₹ 57, they profit = 100

$$\begin{aligned} \text{If A's share is ₹ 855, they profit} &= \frac{100}{57} \times 798 \\ &= **₹1400** \end{aligned}$$

57. (A)



$$PO = OR = \frac{12}{2} = 6 \text{ cm}$$

$$SO = OQ = \frac{5}{2} = 2.5 \text{ cm}$$

$$PQ = QR = RS = SP = \sqrt{6^2 + 2.5^2}$$

$$= \sqrt{36 + 6.25} = \sqrt{42.25}$$

$$= 6.5 \text{ cm}$$

$$\therefore \text{Perimeter} = 4 \times 6.5 = \mathbf{26 \text{ cm}}$$

58. (D) Required HCF = $2 \times 3^2 \times 5 = 90$

As per the given options it will be $3^2 = \mathbf{9}$

59. (A) Difference between C.I. & S.I. for 2 years at 5% rate = $(10.25\% - 10) = 0.25\%$

Required difference = 4280 off 0.25% = $\mathbf{10.7}$

60. (D) Let the speed of stream be x km/hr
ATQ,

$$\frac{60}{9+x} + \frac{60}{9-x} = 24$$

On solving, $x = 6$ km/hr

\therefore Required speed of stream = $\mathbf{6 \text{ km/hr}}$

61. (B) $A + B = 45^\circ$

We know that

$$\frac{\tan A + \tan B}{1 - \tan A \cdot \tan B} = 1$$

$$\Rightarrow \tan A + \tan B + \tan A \tan B = 1$$

$$\text{So, } 2(\tan A + \tan B + \tan A \tan B) = 2 \times 1 = \mathbf{2}$$

62. (B) $10\% = \frac{1}{10}$, $25\% = \frac{1}{4}$

$SP_1 + SP_2 = 2470$ [Given]

	Ist	:	IInd
CP	10	:	4×2
SP	9	:	5×2
P/L	-1	:	$+1 \times 2$

Total selling price = $(9 + 10) = 19$ units

ATQ,

19 units = 2470

$$1 \text{ unit} = \frac{2470}{19} = ₹ 130$$

Total profit = $(2 - 1) \times 130 = ₹ \mathbf{130}$

63. (C) Area of the floor = $800 \times 600 = 480000 \text{ cm}^2$. m

Area of a square tile = $40 \times 40 = 1600 \text{ cm}^2$

$$\therefore \text{Number of tiles} = \frac{480000}{1600} = \mathbf{300}$$

64. (A) Required length = H.C.F. of (1.8, 2.7, 3.6) m
 $= 0.9 = \mathbf{90 \text{ cm}}$

$$65. (A) \left(x^2 + \frac{1}{x^2}\right)^2 = x^4 + \frac{1}{x^4} + 2x^2 \cdot \frac{1}{x^2}$$

$$= 119 + 2 = 121$$

$$\therefore x^2 + \frac{1}{x^2} = 11$$

$$\text{again } \left(x - \frac{1}{x}\right)^2 = x^2 + \frac{1}{x^2} - 2x \cdot \frac{1}{x} = 11 - 2 = 9$$

$$\therefore x - \frac{1}{x} = 3$$

$$\Rightarrow \left(x - \frac{1}{x}\right)^3 = 3^3$$

$$\Rightarrow x^3 - \frac{1}{x^3} - 3x \cdot \frac{1}{x} \left(x - \frac{1}{x}\right) = 27$$

$$\Rightarrow x^3 - \frac{1}{x^3} - 3 \times 3 = 27$$

$$\therefore x^3 - \frac{1}{x^3} = 27 + 9 = 36$$

$$3 \left(x^3 - \frac{1}{x^3}\right) = 3 \times 36 = \mathbf{108}$$

$$66. (A) \sin 720^\circ - \cot 270^\circ - \sin 150^\circ \cdot \cos 120^\circ$$

$$= \sin(2 \times 360^\circ + 0^\circ) - \cot(360^\circ - 90^\circ) - \sin(90^\circ + 60^\circ) \cdot \cos(90^\circ + 30^\circ)$$

$$= \sin 0^\circ - \cot 90^\circ + \cos 60^\circ \cdot \sin 30^\circ$$

$$= 0 - 0 + \left(\frac{1}{2} \times \frac{1}{2}\right) = \frac{1}{4}$$

$$\Rightarrow \sqrt{\sin 720^\circ - \cot 270^\circ - \sin 150^\circ \cos 120^\circ} = \sqrt{\frac{1}{4}} = \mathbf{\frac{1}{2}}$$

67. (C) Volume of cistern = $\pi r^2 h$

$$\pi r^2 h = 352,000 \text{ cm}^3$$

$$\Rightarrow \frac{22}{7} \times \frac{40}{2} \times \frac{40}{2} \times h = 352000$$

$$\Rightarrow h = \frac{352000 \times 7 \times 2 \times 2}{22 \times 40 \times 40}$$

$$\Rightarrow h = 280 \text{ cm} = \mathbf{2.8 \text{ m}}$$

$$68. (C) \frac{\sqrt{192} - \sqrt{48}}{\sqrt{12}} = \frac{8\sqrt{3} - 4\sqrt{3}}{2\sqrt{3}} = \frac{8-4}{2} = \frac{4}{2} = \mathbf{2}$$

$$69. (A) C's 1 \text{ day's work} = \frac{1}{2} - \left[\frac{1}{4} + \frac{1}{5}\right]$$

$$= \frac{1}{2} - \frac{9}{20} = \frac{1}{20}$$

A's wages : B's wages : C's wages

$$= \frac{1}{4} : \frac{1}{5} : \frac{1}{20} = 5 : 4 : 1$$

$$\therefore C's \text{ share (for 2 days)} = ₹ \left(2 \times \frac{1}{20} \times 4000\right)$$

$$= ₹ \mathbf{400}$$

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70. (B) Cost price of 1 Banana = ₹ 625

Selling price of 1 Banana = ₹ $\frac{84}{12} = 7$

∴ Required Profit % = $\frac{0.75}{6.25} \times 100 = 12\%$

71. (C) $\angle ABD = \angle BDC = x^\circ$ (Alternate angles)

In $\triangle BDC$, we have

$\angle BDC + \angle DCB + \angle CBD = 180^\circ$

$\Rightarrow x^\circ + z^\circ + y^\circ = 180^\circ$

$\Rightarrow \frac{5}{3}y + \frac{7}{3}y + y^\circ = 180^\circ \left[x = \frac{5}{3}y, y = \frac{3}{7}z \right]$

$\Rightarrow 5y = 180^\circ \Rightarrow y = 36^\circ$

$\Rightarrow \therefore x = \frac{5}{3}y = 60^\circ$ and $z = \frac{7}{3}y = 84^\circ$

Now in $\triangle ABD$,

$x^\circ + 42^\circ + \angle BAD = 180^\circ$

$\Rightarrow \angle BAD = 180^\circ - 42^\circ - 60^\circ = 78^\circ$

72. (C) $\tan(20 + 45^\circ) = \cot 30 = \tan(90^\circ - 30)$

$\Rightarrow 20 + 45^\circ = 90^\circ - 30$

$\Rightarrow 50 = 90^\circ - 45^\circ = 45^\circ$

∴ $\theta = 9^\circ$

So, $\sin 50 = \sin 45 = \frac{1}{\sqrt{2}}$

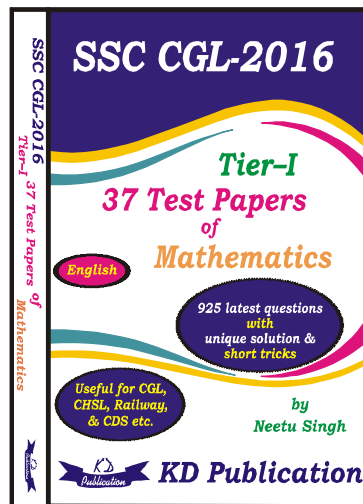
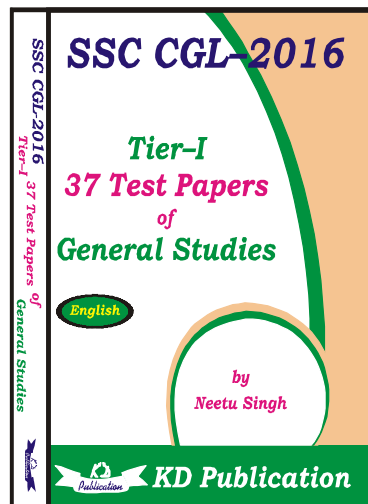
73. (B) 20% of 18600 = **3720** crore

74. (C) Agriculture accounts for 40% i.e., $\left(\frac{2}{5}\right)^{\text{th}}$ of

the GDP of India.

75. (A) $(40 + 20 + 10)\%$ of 42800 = ₹ **29960** crore

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MEANINGS IN ALPHABETICAL ORDER

WORDS	MEANING IN ENGLISH	MEANING IN HINDI
Amnesty	Pardon	क्षमा
Articulate	to express very clearly & effectively	स्पष्ट व्यक्त करने वाला
Claustrophobia	a fear of closed & small spaces	छोटी जगह से भय लगना
Deprecate	to express disapproval of something	निंदा करना
Depreciate	to decrease in value	मूल्य का कम करना
Dwindling	act of becoming smaller, shrinking, decreasing	कम होना
Gaudy	too bright & decorated	भड़कीला
Internment	confinement	नजरबंदी
Paraphernalia	things of same kind	सामग्री (एक जैसी)
Progeria	a rare genetic order of childhood marked by slowed physical growth and showing rapid aging	एक प्रकार का रोग जिस में जल्द वृद्धावस्था आ जाती है।

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SSC MOCK TEST - 92 (ANSWER KEY)

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

- 76.(A) Media here is treated as singular noun and hence will take singular verb 'plays'.
- 77.(C) Add 'the' after 'all'. All, same, both and whole usually take 'the'.
- 78.(C) 'Not' will not come 'Unless' and 'not' together make a sentence superfluous.
- 79.(C) Verb will be according to the first subject as the subject are joined by 'with'. Replace 'were' with 'was'.
- 91.(C) 'If only' + past verb [wish of the present] → wish to change something that has happened.
92. (A) Participate takes preposition 'in'.

Mock 91 corrections

21. (D) 70 is the right answer

Note:- Whatsapp with Mock Test No. and Question No. at 9560866063 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