SSC CGL 12 June 2019 Shift-1

Reasoning

Instructions

For the following questions answer them individually

Question 1

In a code language, YOGHURT is written as 251578211820. How will DEVELOP be written as in that language?

A 45225121515

B 45215121516

C 45225121516

D 45225111516

 Answer: C

Question 2

Three of the following four words are alike in a certain way and oneis different. Pick the odd word out.

A Examine

B Deliberate

C Inquire

D Explore

 Answer: B

Question 3

Which number will replace the question mark (?) in the following series?
115, ?, 134, 145, 157, 170

A 122

B 124

C 127

D 125

 Answer: B

Question 4

'A + B' means 'A is the sister of B'.
'A - B' means 'A is the brother of B'.
'A × B' means 'A is the mother of B'.
'A ÷ B' means 'A is the father of B'.
If V + S × Q - P ÷ T + R × U, then how is R related to S ?

A Daughter
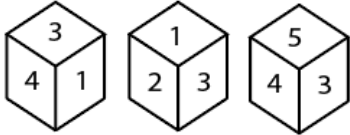
B Grandson

C Maternal grandmother

D Grand-daughter

Answer: D

Question 5

Three different positions of the same dice are shown. Which number will be on the face opposite to the one having 2 ?
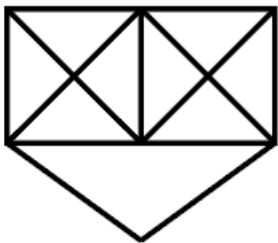

A 3

B 5

C 4

D 6

Answer: C

Question 6

How many triangles are present in the following figure ?

A 19

B 20

C 18

D 17

Answer: A

Question 7

Two statements are given, followed by three conclusions numbered I, II and III. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.
Statements:
All drums are sticks.
Some drums are boxes.
Conclusions:
I Some boxes are sticks.
II. Some sticks are drums.
III. All sticks are drums.

A   Only conclusions I and III follow.

B   All the conclusions, I, II and III follow

C   Only conclusions II and III follow

D   Only conclusions I and II follow

   Answer: D
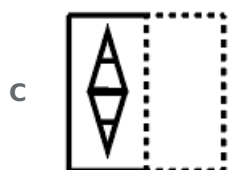
Question 8

Which two signs should be interchanged to make the following equation correct?
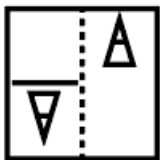$4 \times 5 - 24 \div 12 + 8 = 14$

A $\div \ and \times$

B $\times \ and +$

C $+ \ and -$

D $+ \ and \div$

   Answer: C

Question 9

Select the option that depicts how the given transparent sheet of paper would appear if it is folded at the dotted line.

A

B

C

D
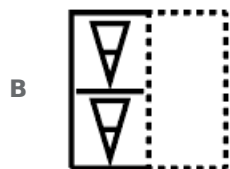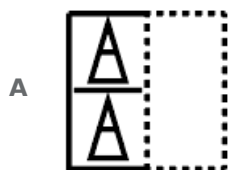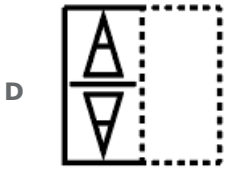
Answer: D

Question 10

Arrange the following wordsin a logical and meaningful order.
1. Writing
2. Book
3. Seller
4. Idea
5. Feedback
6. Reader

A   4, 1, 2, 6, 3, 5

B   4, 1, 2, 3, 6, 5

C   4, 1, 2, 6, 5, 3

D   4, 1, 3, 6, 5, 2

Answer: B

Question 11

Which letter will replace the question mark (?) in the following series?
X, R, ?, I, F, D, C

A   Q

B   N

C   M

D   O

Answer: C

Question 12

Select the figure in which the given figure is embedded. (Rotation is not allowed).

A

B

C

D
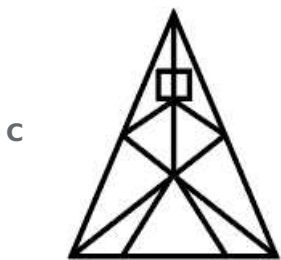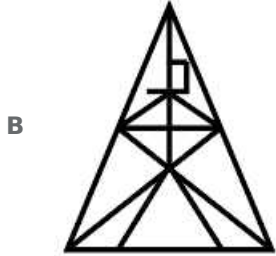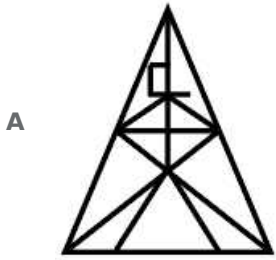
Answer: B

Question 13

In the given Venn diagram, the circle represents 'businessmen', the triangle represents 'landlords' and the rectangle represents 'income tax payers'. The numbers given in the diagram represent the number of persons in that particular category.
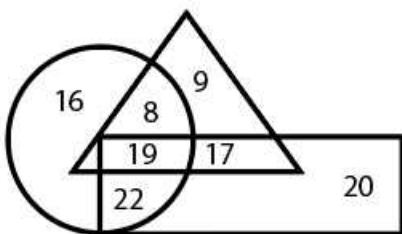
How many businessmen are tax payers but NOT landlords?

A 22

B 8

C 17

D 19

Question 14

Select the correct mirror image of the given figure when the mirror is placed to the right of the figure.

A

B

C

D
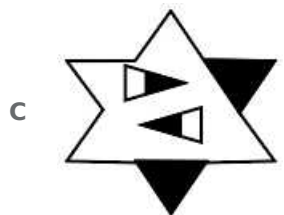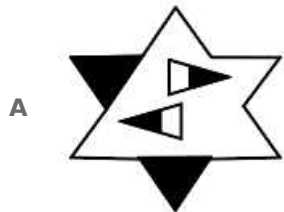
Answer: A

Question 15

Select the word-pair in which the two words are related in the same wayas are the two words in the following word pair.
Suitcase : Cloak Room

A   Salary : Credit

B   Bag : Luggage

C   Chair : Furniture

D   Money : Bank

Answer: D

Question 16

In a code language, PERMANENT is written as EPMRBENTN. How will TECHNICAL be written as in that language?

A   ETHCPCILA

B   ETHCOCILA

C   ETCHOCILA

D   TEHCOCIAL

Answer: B

Question 17

Select the missing number from the below options.

9	11	8
6	8	3
45	57	?

A   55

B   53

C   54

D   52

Answer: A

Question 18

Three of the following four number-pairs are alike in a certain way and oneis different. Pick the number-pair that is different from the rest.

A   7 : 48

B   13 : 170

C   11 : 120

D   5 : 24

Answer: B

Question 19

Select the option that is related to the third numberin the same way as the second number is related to the first number.
9 : 90 :: 12 : ?

A   156

B 152

C 160

D 150

   Answer: A

Question 20

Select the figure that will come next in the following figure series.

A

B

C

D
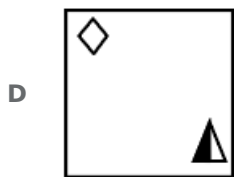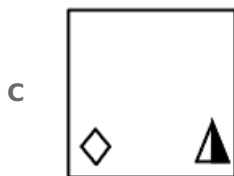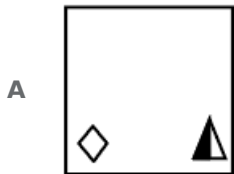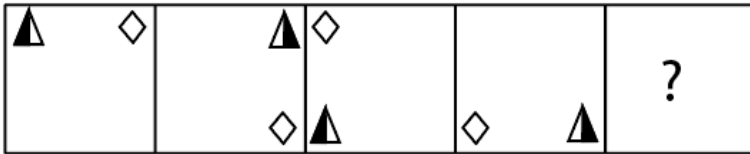
   Answer: A

Question 21

The sum of the current ages of Vishal and Armaan is 70 years. 5 years ago, Vishal was twice as old as Armaan. What is Armaan's current age?

A 10 years

B 45 years

C 25 years

D 20 years

   Answer: C

Question 22

Three of the following four letter-clusters are alike in a certain way and one is different. Pick the odd one out.

A JKNRV

B PQTXC

C GHKOT

D UVYCH

   Answer: A

Question 23

Select the missing number from the below options.

11	17	8
16	36	4
15	23	?

A 14

B 10

C 12

D 11

   Answer: B

Question 24

'Political Science' is related to 'Social Science' in the same way as 'Chemistry' is related to ' ....'

A Humanities

B Elements

C Science

D Equations

   Answer: C

Question 25

Which letter-cluster will replace the question mark (?) in the following series?
FKP, HNT, JQX, LTB, ?

A NWF

B NXF

C NWG

D MWF

   Answer: A

General knowledge

Instructions
For the following questions answer them individually

Question 26

What is the dominant chemical present in detergent powder?

A Calcium carbonate

B Sodium alkyl sulphate

C Hydrochloric acid

D Sodium carbonate

   Answer: D

Question 27

Rajat has hypermetropia. What type of lens will the ophthalmologist recommend to correct his vision?

A Convex

B Progressive

C Bifocal

D Concave

   Answer: A

Question 28

What effect will a decrease in demand and an increase in supply have on equilibrium price?

A Sometimes price will rise and sometimes it will fall

B Equilibrium price will fall

C Equilibrium price will rise

D Equilibrium price will be constant

   Answer: B

Question 29

Name the tissue that transports food to various parts of a plant.

A   Parenchyma

B   Sclerenchyma

C   Xylem

D   Phloem

   Answer: D

Question 30

To which of the following Indian states does the tribe of 'Nyishi' belong?

A   Chhattisgarh

B   Tamil Nadu

C   Arunachal Pradesh

D   Bihar

   Answer: C

Question 31

During World War II, the Battles of Kohima and Imphal were fought in the year _____.

A   1942

B   1944

C   1945

D   1943

   Answer: B

Question 32

Which article of the Constitution of India provides that each Indian state will have a governor?

A   Article 151

B   Article 154

C   Article 152

D   Article 153

   Answer: D

Question 33

Which Indian badminton player was runner-up at the 2019 Swiss Open tournament?

A   Kidambi Srikanth

B   Sai Praneeth

C   Parupalli Kashyap

D   Chetan Anand

   Answer: B

Question 34

Which of the following is called the 'popular chamber'?

A   Gram Sabha

B   Rajya Sabha

C   State Assembly

D   Lok Sabha

   Answer: D

Question 35

The term 'Dolphin Kick' is associated with which sport?

A   Football

B   Rugby

C   Swimming

D   Cricket

   Answer: C

Question 36

Which Indian batsman was the first to hit six consecutive sixes in first-class cricket?

A   Ravi Shastri

B   Virat Kohli

C   Sachin Tendulkar

D   Sunil Gavaskar

   Answer: A

Question 37

_____ has been established as the annual 'International Day of Happiness'.

A 15th January

B 31st March

C 20th March

D 23rd February

Answer: C

Question 38

Dashain' is the grandest festival of _____.

A Nepal

B Bangladesh

C Bhutan

D Sri Lanka

Answer: A

Question 39

Which of the following is the highest mountain peak in Maharashtra?

A Taramati

B Anjaneri

C Salher

D Kalsubai Shikhar

Answer: D

Question 40

Which of the following Indian film-makers was given the title of 'Ambassador of Interlaken' in 2011 at Switzerland?

A Subhash Ghai

B Yash Johar

C Yash Chopra

D Raj Kapoor

Answer: C

Question 41

Who was the last ruler of the Vaghela Dynasty of Gujarat after whose defeat the kingdom was passed to Alauddin Khilji?

A Rama

B Arjuna Deva

C Karandev

D Saranga Deva

Answer: C

Question 42

Who is the author of the book 'India Shastra: Reflections on the Nation in our Time'?

A Manmohan Singh

B Narendra Modi

C A P J Abdul Kalam

D Shashi Tharoor

Answer: D

Question 43

Which of the following countries is the largest producer of wheat in the world?

A India

B Bangladesh

C Myanmar (Burma)

D China

Answer: D

Question 44

What was India's rank among 156 countries in the Global Happiness Index 2019?

A 132nd

B 124th

C 137th

D 140th

Answer: D

Question 45

Blue litmus paper turns ____ on contact with an acidic solution.

A green

B red

C yellow

D   brown

Answer: B

Question 46

_____ is well-known for the golden beautification of the Harmandir Sahib Gurdwara in Amritsar, famously known as the Golden Temple.

A   Charat Singh

B   Maha Singh

C   Ranjit Singh

D   Duleep Singh

Answer: C

Question 47

What is the distinctive characteristic of 'marsupials'?

A   They hibernate in winter

B   They lay eggs

C   They carry young ones in pouches

D   They migrate from one place to another

Answer: C

Question 48

Which state of India has the longest mainland coastline?

A   Odisha

B   Kerala

C   Maharashtra

D   Gujarat

Answer: D

Question 49

A substantial increase in capital expenditure or revenue deficit leads to _____.

A   Budgetary Deficit

B   Fiscal Deficit

C   Primary Deficit

D   Revenue Deficit

Answer: B

Question 50

In the year _____, the Maratha Empire ceased to exist with the surrender of the Marathas to the British, ending the Third Anglo-Maratha War.

A 1818

B 1792

C 1811

D 1806

   Answer: A

Quant

Instructions

For the following questions answer them individually

Question 51

Two articles are sold for ₹ 4,956 each. On one,the seller gains 18% and onthe other he loses 16%. What is his overall gain or loss percentto nearest one decimal place??

A 1.9% loss

B 1.9% gain

C 2.1% gain

D 2.1% loss

   Answer: A

Question 52

The following table shows the percentage distribution of students in various disciplines from five different colleges.

Disciplines	Colleges				
	A	B	C	D	E
Science	25	35	45	28	35
Economics	35	40	20	42	25
Mathematics	40	25	35	30	40
Total Students	8,000	10,000	15,000	9,000	11,000

What is the average number of students from the science discipline of all the colleges taken together?

A 3748

B 3762

C 3642

D 3724

Answer: D

Question 53

Ina circle with centre O, AB is a diameter and CD is a chord such that ABCD is a trapezium. If$\angle$BAC = $28°$, then $\angle$CAD is equal to:

A $32°$

B $62°$

C $34°$

D $28°$

Answer: C

Question 54

In $\triangle$ABC,P is a point on BC such that BP : PC = 2 : 3 and is the midpoint of BP. Then ar($\triangle$ABQ): ar($\triangle$ABC)is equal to:

A   1:5

B   1:4

C   2:3

D   2:5

Answer: A

Question 55

The following table shows the percentage distribution of students in various disciplines from five different colleges.

Disciplines	Colleges				
	A	B	C	D	E
Science	25	35	45	28	35
Economics	35	40	20	42	25
Mathematics	40	25	35	30	40
Total Students	8,000	10,000	15,000	9,000	11,000

If the data of the total students' college wise, is represented by a pie-chart, what is the central angle of the sector representing college E (to nearest whole number)?

A $73°$

B $78°$

C $79°$

D $75°$

Answer: D

Question 56

The value of: $3.8 + (8.2 \div 4.1 \times 2) - 4 \times 3 \div 1.2$

A   1.2

B   -2.2

C   2.2

D   -1.2

   Answer: B

Question 57

The price of sugar is increased by 17%. A person wants to increase his expenditure by 7% only. By what percentage, correct to one decimal place, should he reduce his consumption?

A   8.3%

B   8.1%

C   8.7%

D   8.5%

   Answer: D

Question 58

△ABC ∼ △RQP and PQ = 10 cm, QR = 12 cm and RP = 16 cm. If ar(△PQR): ar (△ABC) = $\frac{9}{4}$, then BC is equal to:

A   8 cm

B   6 cm

C $\frac{20}{3}$ cm

D $\frac{32}{3}$ cm

   Answer: C

Question 59

If a + b + c = 6 and ab + bc + ca = 5, then $a^3 + b^3 + c^3 - 3abc$ is equal to:

A   108

B   126

C   98

D   116

   Answer: B

Question 60

If a : b = 2 : 3, then (5a - 2b) : (5a+ 2b) is equal to:

A   2:7

B   3:7

C   1:3

D   1:4

   Answer: D

Question 61

If $\tan 4\theta = \cot(40° - 2\theta), then\ \theta$ is equal to:

A   25°

B   30°

C   20°

D   35°

   Answer: A

Question 62

A is 50% moreefficient than B and C is 40% less efficient than B. Working together, they can complete a task in 20 days. In how many dayswill C alone complete 30% of that task ?

A   31

B   29

C   33

D   35

   Answer: A

Question 63

A train without stoppage travels with an average speed of 80 km/h and with stoppage,it travels with an average speed of 64 km/h. For how many minutes does the train stop on an average per hour?

A   8

B   14

C   12

D   10

   Answer: C

Question 64

The following table shows the percentage distribution of students in various disciplines from five different colleges.

Disciplines	Colleges				
	A	B	C	D	E
Science	25	35	45	28	35
Economics	35	40	20	42	25
Mathematics	40	25	35	30	40
Total Students	8,000	10,000	15,000	9,000	11,000

The number of students from the discipline of Economics from college B is approximately what percentage of the number of students from the discipline of Science from the college C?

A 56

B 59

C 58

D 61

Answer: B

Question 65

The value of: $\frac{\sin 44°}{\cos 46°} + \sin^2 60° - \cos^2 45° + \sec 60°$ is equal to:

A $\frac{13}{4}$

B $\frac{11}{3}$

C $\frac{11}{4}$

D $\frac{7}{4}$

Answer: A

Question 66

If $\cos \theta = \frac{4}{5}$, then $\sin^2 \theta \cos \theta + \cos^2 \theta \sin \theta$ is equal to:

A $\frac{16}{25}$

B $\frac{84}{125}$

C $\frac{14}{25}$

D $\frac{82}{125}$

Answer: B

Question 67

If (a + b) = 6 and ab = 8, then $(a^3 + b^3)$ is equal to:

A 216

B 72

C 144

D 108

  Answer: B

Question 68

Chords AB and CD of a circle intersect at a point P inside the circle. If AB = 10 cm, AP = 4 cm and PC = cm, then CD is equal to:

A 4.8 cm

B 9.8 cm

C 7.8 cm

D 6.8 cm

  Answer: B

Question 69

The radii of the two circular faces of the frustum of a cone of height 21 cm are 5 cm and 3 cm. What is its volume in cm$^3 (\pi = \frac{22}{7})$

A 1020

B 1058

C 1078

D 1025

  Answer: C

Question 70

What is the value of x so that the seven digit number 91876x2 is divisible by 72?

A 7

B 3

C 2

D 5

  Answer: B

Question 71

The following table shows the percentage distribution of students in various disciplines from five different colleges.

Disciplines	Colleges				
	A	B	C	D	E
Science	25	35	45	28	35
Economics	35	40	20	42	25
Mathematics	40	25	35	30	40
Total Students	8,000	10,000	15,000	9,000	11,000

What is the percentage of students from the discipline of Mathematics for colleges A and C taken together, (nearest to one decimal place)?

A   37.2

B   36.9

C   37.5

D   36.7

Answer: D

Question 72

The difference between the compound interest and simple interest on ₹x at 12% per annum for 2 years is ₹43.20. What is the value of x?

A   3,000

B   2,500

C   2,800

D   2,400

Answer: A

Question 73

An article is sold for ₹ 547.40 after successive discounts of 30% and 15%. What is the marked price of the article?

A   ₹940

B   ₹900

C   ₹920

D   ₹960

Answer: C

Question 74

In a class of 60 students, 40% are girls. The average weight of the boys is 62kg and that of the girls is 55kg. What is the average weight of the whole class?

A 59.2kg

B 58.6kg

C 58.8kg

D 59kg

   Answer: A

Question 75

If $\sqrt{x} + \frac{1}{\sqrt{x}} = 2\sqrt{2},\ then\ x^2 + \frac{1}{x^2}$ **is equal to:**

A 36

B 34

C 32

D 64

   Answer: B

English

Instructions
For the following questions answer them individually

Question 76

Given below are four jumbled sentences. Select the option that gives their correct order.
A. So, I had thoughts of setting up an Indian restaurant there with my wife's support.
B. It took us two months to redesign the place to suit our needs.
C. One of the things I really missed when I set up home in Maryla nd, was a restaurant that served authentic Indian food.
D.I decided to pursue this idea seriously and bought an old building in the downtown.

A CBAD

B CADB

C DACB

D BCDA

   Answer: B

Question 77

Select the word which means the same as the group of words given.
A state of perfect balance

A equilibrium

B equinox

C equilateral

D equivalent

   Answer: A

Question 78

In the sentence identify the segment which contains the grammatical error.
Not complying by any of the laws can land you into serious trouble.

A can land you

B into serious trouble

C any of the laws

D Not complying by

   Answer: D

Question 79

Given below are four jumbled sentences. Select the option that gives their correct order.
A. Lyrics help in creating a distictive narrative, some conventions of which have been carried over from the talkies era.
B. Thus, songs have outli ved films in people's memories.
C. However, songs seem to have acquired a musical gram mar of their own, establishing an emotional chord with the listeners.
D. In popular Indian cinema, lyrics a re to music what the heart is to the body.

A ADBC

B ABCD

C DCBA

D DACB

   Answer: D

Question 80

Select the most appropriate synonym of the given word.
DEVOUT

A revered

B pious

C respectable

D loyal

   Answer: B

Question 81

Select the correctly spelt word.

A exilerate

B exilarate

C exhilarate

D exhilerate

Answer: C

Question 82

Select the most appropriate option to fill in the blank.
I sat _____ my life as nothing seemed to be working for me.

A invoking

B cursing

C tormenting

D blessing

Answer: B

Question 83

In the sentence identify the segment which contains the grammatical error.
Raja Ravi Varma was one of the first artist who tried to create a style that was both modern and traditional.

A to create a style that was

B Raja Ravi Varma was

C one of the first artist

D both modern and traditional

Answer: C

Question 84

Select the most appropriate synonym of the given word.
RENOWN

A wisdom

B conceit

C fame

D obscurity

Answer: C

Question 85

Select the most appropriate antonym of the given word.
FOREIGN

A rustic

B rural

C native

D Indian

   Answer: C

Question 86

Select the word which means the same as the group of words given.
One who walks in sleep

A pedestrian

B philanthropist

C somnambulist

D omnipotent

   Answer: C

Instructions

In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank.

Comprehension:
English is not a language that (1)_____ in India. But it is used extensively in (2)_____country. India comes second on the list of countries (3)_____most English speakers,albeit not as the first language. English is more (4)_____than any single Indian language! It has managed to (5)_____the entire world.

Question 87

Select the most appropriate option to fill in blank No.(1)

A originated

B developed

C created

D derived

   Answer: A

Question 88

Select the most appropriate option to fill in blank No.(2)

A one

B an

C   a

D   the

   Answer: D

Question 89

Select the most appropriate option to fill in blank No.(3)

A   by

B   with

C   from

D   among

   Answer: B

Question 90

Select the most appropriate option to fill in blank No.(4)

A   prevalent

B   frequented

C   extended

D   comprehensive

   Answer: A

Question 91

Select the most appropriate option to fill in blank No.(5)

A   saturate

B   invade

C   pervade

D   persuade

   Answer: C

Instructions
For the following questions answer them individually

Question 92

**Select the most appropriate meaning of the underlined idiom in the given sentence.
Many people join politics to feather their own nest.**

A   make others' life comfortable

B serve their country

C utilize black money

D promote their own interest

Answer: D

Question 93

Select the correct passive form of the given sentence.
Credit cards are replacing cash transactions.

A Cash transactions are being replaced by credit cards.

B Cash transactions had been replaced by credit cards.

C Cash transactions are replaced by credit cards.

D Cash transactions have been replaced by credit cards.

Answer: A

Question 94

Select the correctly spelt word.

A preportion

B propotion

C proportion

D proporsion

Answer: C

Question 95

Select the most appropriate meaning of the underlined idiom in the given sentence.
The man heaved a sigh of relief when he was sure he was out of the woods.

A out of danger

B released from prison

C out of the forest

D discharged from hospital

Answer: A

Question 96

Select the most appropriate option to fill in the blank.
The roads at 15000 feet are not easily navigable and the air is _____ and freezing.

A exalted

B rarefied

C intensified

D elevated

Answer: B

Question 97

Select the most appropriate antonym of the given word.
ASCENT

A distant

B depression

C descent

D decent

Answer: C

Question 98

Select the most appropriate option to substitute the underlined segment in the given sentence. If no substitution is required, select No improvement.
I have not <u>saw him since I last leave</u> the town.

A see him since I last left

B seen him for I last left

C seen him since I last left

D No improvement

Answer: C

Question 99

Select the correct active form of the given sentence.
We were given very little time to prepare the presentation.

A They give us very little time to prepare the presentation

B They will give us very little time to prepare the presentation.

C They have given us very little time to prepare the presentation.

D They gave us very little time to prepare the presentation.

Answer: D

Question 100

Select the most appropriate option to substitute the underlined segment in the given sentence. If no substitution is required, select No improvement.
Ishwarchand Vidyasagar <u>use the ancient text to suggestion</u> that widows could remarry.

A used the ancient texts suggests

B used the ancient texts to suggest

C use the ancient texts for suggestion

D No improvement

Answer: B