SSC CGL 12 June 2019 Shift-2

Reasoning

Instructions

For the following questions answer them individually

Question 1

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

A 13 : 171

B 8 : 66

C 7 : 51

D 10 : 98

Answer: D

Question 2

Ina code language, ARDOUS is written as 1184152119. How will SYSTEM be written as in that language?

A 19251921513

B 19251920514

C 18251820513

D 19251920513

Answer: D

Question 3

The sum of the current ages of Asma and her grand father is 80 years. 10 years from now, Asmma's age will be one-fourth of her grandfather's age. What is Asma's current age?

A 12 years

B 20 years

C 10 years

D 16 years

Answer: C

Question 4

Select the missing number from the given options.

8	27	?
7	2	3
9	5	7

A 64

B 16

C 25

D 36

Answer: A

Question 5

Arrange the following words in a logical and meaningful order.
1. Hunger
2. Cry
3. Feeding
4. Child
5. Sleep
6. Mother

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

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

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

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

Answer: D

Question 6

Which number will replace the question mark (?) in the following series?
118, 129, 141, 154, 168, ?

A 184

B 182

C 181

D 183

Answer: D

Question 7

Select the option that is related to the third numberin the same wayas the second numberis related to the first number.
7 : 344 :: 11 : ?

A 1331

B 1332

C 122

D 121

Answer: B

Question 8

In a code language, INFORMATIVE is written as ROFNILEVITA. How will SUPERFICIAL be written as in that language?

A LAICIGREPUS

B USEPRFICAIL

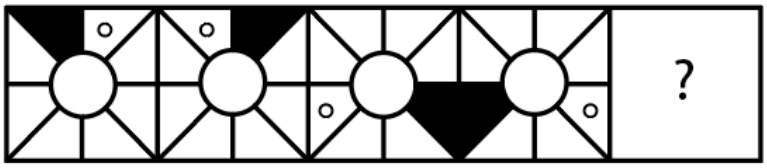
C REPUSELAICI

D REPUSGLAICI

Answer: C

Question 9

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



A

B

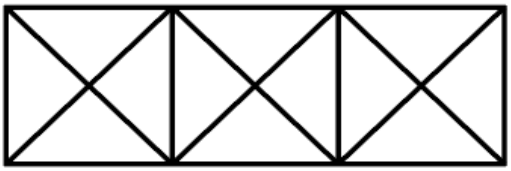
C

D

Answer: D

Question 10

How many triangles are there in the following figure ?



A 30

B 24

C 26

D 28

Answer: D

Question 11

Which two signs should be interchanged to make the following equation correct?
$24 \div 12 - 6 \times 6 + 2 = 18$

A $\times \; and \; +$

B $+ \; and \; \div$

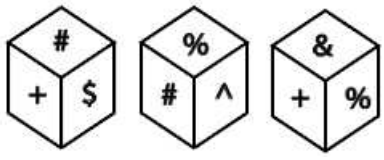
C $+ \; and \; -$

D $\div \; and \; \times$

Answer: B

Question 12

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



A +

B #

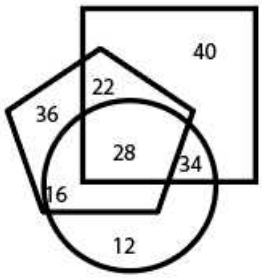
C $

D ^

Answer: B

Question 13

In the given Venn diagram, the pentagon represents ‘Cricketers’, the square represents ‘Chess players’ and the circle represents ‘Clerks’. The numbers given in the diagram represent the number of persons in that particular category.



How many cricketers are chess players but NOT clerks?

A 36

B 34

C 22

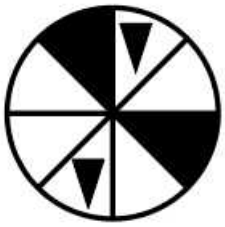
D 40

Answer: C

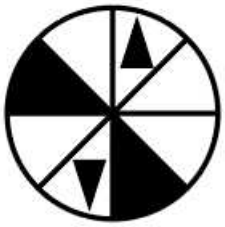
Question 14

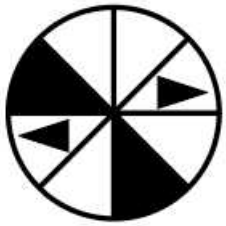
Select the correct mirror image of the given figure when the mirror is placed to the right of the figure.

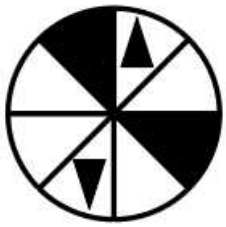
A



B



C 

D 

Answer: D

Question 15

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 postcards are envelopes.
No envelope is a paper.
Conclusions:
I. Some envelopes are postcards.
II. No paper is an envelope.
III. No postcard is a paper.

A All the conclusions, I, II and III, follow

B Only conclusions I and II follow

C Only conclusions I and III follow.

D Only conclusions II and III follow

Answer: A

Question 16

Which letter-cluster will replace the question mark (?) in the following series?
PRT, TVX, ?, BDF, FHJ

A XAB

B XZB

C XZC

D YZB

Answer: B

Question 17

‘Valuable’ is related to ‘Precious’ in the same way as ‘Dry’ is related to ‘ ..... ’

A Rough

B Wet

C Farm

D Arid

Answer: D

Question 18

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

A Ears

B Nose

C Eyes

D Throat

Answer: D

Question 19

Select the missing number from the given options.

64	49	?
12	17	4
20	24	8

A 12

B 16

C 36

D 25

Answer: B

Question 20

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

A SUXBG

B OQTXC

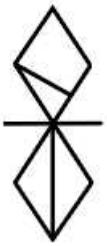
C BDGKP

D JLKRW

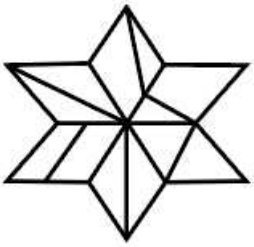
Answer: D

Question 21

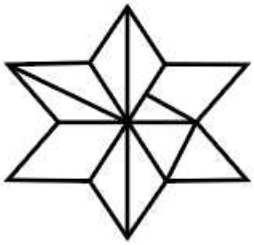
Select the figure in which the given figure is embedded. (rotation is not allowed).



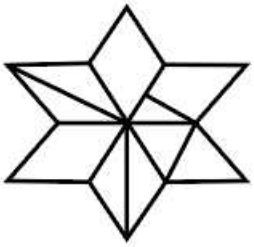
A



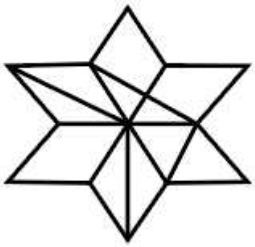
B



C



D



Answer: D

Question 22

Which letter will replace the question mark (?) in the following series?
P, U, R, W, T, 2, V, A,X

A X

B W

C Z

D Y

Answer: D

Question 23

Select the word-pair in which the two words are related in the same way as are the two words in the following word pair.
Dermatology : Skin

A Paediatrics : Lungs

B Orthopaedics : Bones

C Medicine : Treatment

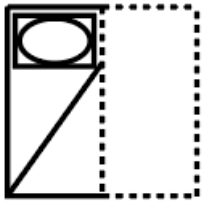
D Cardiology : Angiography

Answer: B

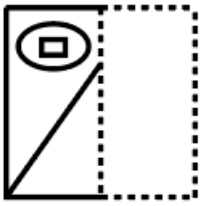
Question 24

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

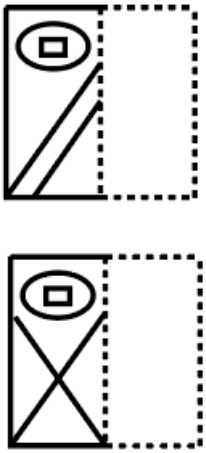
A



B



C



D

Answer: B

Question 25

‘A + B’ means ‘A is the brother of B’.
‘A - B’ means ‘A is the wife of B’.
‘A × B’ means ‘A is the daughter of B’.
‘A ÷ B’ means ‘A is the father of B’.
If P + S × Q × R - T ÷ V ÷ U, then how is T related to P ?

A Maternal grandmother

B Paternal grandfather

C Maternal grandfather

D Paternal grandmother

Answer: C

General knowledge

Instructions
For the following questions answer them individually

Question 26

How many International airports are there in India?

A 15

B 14

C 17

D 16

Answer: C

Question 27

Which of the followings is the national bird of China?

A Barn Owl

B Robin

C Red-crowned Crane

D Parrot

Answer: C

Question 28

What is the chemical name of the deadly poison 'cyanide'?

A Prussic acid

B Sulfuric acid

C Hydrochloric acid

D Nitric acid

Answer: A

Question 29

The river Ganga emerges from Gangotri Glacier and ends at _____.

A Bay of Bengal

B Arabian Sea

C Indian Ocean

D Pacific Ocean

Answer: A

Question 30

What happens when the fiscal deficit increases

A prices increase

B no direct impact on prices

C prices remain constant

D prices decrease

Answer: B

Question 31

All the tangible resources like raw materials and labor used in production process are called

A Opportunity cost

B Variable cost

C Fixed cost

D Real cost

Answer: D

Question 32

which year was the Indian super league launched in?

A 2013

B 2015

C 2012

D 2014

Answer: A

Question 33

The term _____ is prefixed to scientific terms to describe something that is constant.

A Photo

B Iso

C Mega

D Quasi

Answer: B

Question 34

Who is the first Indian national to win the 'Sri Lanka Rathna' award?

A Dileep Padgaonkar

B Khushwant Singh

C Vinod Mehta

D Narasimhan Ram

Answer: D

Question 35

Who presides over the joint sitting of the Lok Sabha and the Rajya Sabha?

A Deputy Speaker of Lok Sabha

B Prime Minister

C Vice President

D Speaker of Lok Sabha

Answer: D

Question 36

The word "blood moon" is used for

A Lunar Eclipse

B Full moon

C Solar Eclipse

D Half moon

Answer: A

Question 37

Which country in the world has the largest number of international borders?

A Nepal

B Pakistan

C India

D China

Answer: D

Question 38

Who is the author of the book 'Freedom from Fear: And Other Writings'?

A Aung San Suu Kyi

B Barak Obama

C A P J Abdul Kalam

D Nelson Mandela

Answer: A

Question 39

Which instrument is used to measure blood pressure?

A Sphygmomanometer

B Lactometer

C Thermometer

D Glucometer

Answer: A

Question 40

In which year was the University Grants Commission (UGC) formally established?

A 1950

B 1964

C 1947

D 1956

Answer: D

Question 41

Dolly, the first cloned living being created at Roslin Institute in Scotland was a _____.

A cow

B dog

C sheep

D cat

Answer: C

Question 42

Who among the following became the fastest Asian to cycle around the globe in 2018?

A Deena Prince

B Vedangi Kulkarni

C Disha Srivastava

D Swati Sani

Answer: B

Question 43

Mitra Mela was a revolutionary organisation founded by Veer Savarkar in the year ___

A 1900

B 1873

C 1864

D 1856

Answer: A

Question 44

UN's Economic and Social Council (ECOSOC) elected _____ to the 18-member committee 'CESCR' for the Asia Pacific seat in 2018.

A Chandrashekhar Dasgupta

B Shashi Tharoor

C Preeti Saran

D Arundhati Ghosh

Answer: C

Question 45

In which year did the Indian Premier League (IPL) start?

A 2002

B 2008

C 2004

D 2010

Answer: B

Question 46

Under which article of the Constitution of India can members of the Anglo Indian community be nominated to the Lok Sabha by the President?

A 326

B 331

C 330

D 342

Answer: B

Question 47

Burma became independent soverign republic in the year _____.

A 1948

B 1946

C 1962

D 1950

Answer: A

Question 48

Catriona Gray of _____ was crowned Miss Universe in 2018.

A Brazil

B Venezuela

C Philippines

D Spain

Answer: C

Question 49

Who among the following was given the title 'Quaid-i-Azam'?

A Mahatma Gandhi

B Jawaharlal Nehru

C Sardar Vallabhbhai Patel

D Muhammad Ali Jinnah

Answer: D

Question 50

The traditional art of 'Jamdani' weaving originated in _____.

A Nepal

B Myanmar (Burma)

C Bangladesh

D China

Answer: C

Quant

Instructions
For the following questions answer them individually

Question 51

In △ABC,P is a point on BC such that BP : PC = 3 : 4 and Q is the midpoint of BP. Then ar(△ABQ): ar(△ABC) is equal to:

A 3 : 8

B 2 : 7

C 1 : 4

D 3 : 14

Answer: D

Question 52

The radii of two bases of a frustum of height 10.5 cm is 5 cm and 3 cm. What is its volume in cm^3 ($\pi = \frac{22}{7}$)?

A 552

B 545

C 539

D 564

Answer: C

Question 53

Table shows the production of rice (in million tonnes) of three states over six years.

States	Years					
	2011	2012	2013	2014	2015	2016
A	5.2	5.4	5.8	6.2	6.5	6.9
B	3.8	4.1	4.4	4.8	5.2	5.7
C	4.5	5.2	5.8	6.4	6.7	7.4

What is the average production of rice in state A over the years (in million tonnes)?

A 5.8

B 6.1

C 6

D 5.9

Answer: C

Question 54

Two articles are sold for ₹ 4880, on one, the seller gained 22% and on the other he lost 20%. What is his overall gain or loss percentage, nearest to one decimalplace?

A 3.4% loss

B 3.4% gain

C 3.6% gain

D 3.6% loss

Answer: A

Question 55

Ina class of 60 students, 40% are girls. The average weight of the whole class is 59.2 kg and the average weight of the girls is 55 kg. What is the average weight of the boys?

A 62 kg

B 61 kg

C 60 kg

D 63 kg

Answer: A

Question 56

Ina circle of radius 13 cm, a chord is at a distance of Scm from its centre. What is the length of the chord?

A 24 cm

B 18 cm

C 12 cm

D 20 cm

Answer: A

Question 57

The efficiencies of A, B and C are in the ratio of 2 : 3 : 5. Working together, they can complete a task in 6 days. In how many days will A alone complete 20% of that task?

A 4

B 8

C 5

D 6

Answer: D

Question 58

If $3\sin\theta = 4\cos\theta,\ then\ \tan^2\theta + \sin\theta - \cos\theta$ **is equal to:**

A $\frac{88}{45}$

B 2

C $\frac{89}{45}$

D $\frac{17}{9}$

Answer: C

Question 59

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

A 102

B 98

C 104

D 100

Answer: B

Question 60

What is the value of x so that the seven digit number 6913 x 08 is divisible by 88?

A 6

B 4

C 2

D 8

Answer: D

Question 61

An article is sold for ₹ 612 after successive discounts of 25% and 15%. What is the marked price ofthe article?

A ₹960

B ₹940

C ₹1000

D ₹980

Answer: A

Question 62

$\triangle$ABC $\sim$ $\triangle$RQP and PQ = 10 cm, QR =12 cm and RP = 18 cm. If ar($\triangle$ABC) : ar($\triangle$POR) = $\frac{4}{9}$, then AB is equal to:

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

B 8 cm

C 9 cm

D 12 cm

Answer: B

Question 63

Walking at $\frac{3}{4}$ of his usual speed, a person reaches his office 18 minutes late than the usual time. His usual time in minutes is:

A 72

B 45

C 60

D 54

Answer: D

Question 64

If a : b = 2 : 3, then (5a + 3b) : (6a — 2b) is equal to:

A 3 : 2

B 17 : 5

C 10 : 7

D 19 : 6

Answer: D

Question 65

Table shows the production of rice (in million tonnes) of three states over six years.

States	Years					
	2011	2012	2013	2014	2015	2016
A	5.2	5.4	5.8	6.2	6.5	6.9
B	3.8	4.1	4.4	4.8	5.2	5.7
C	4.5	5.2	5.8	6.4	6.7	7.4

If the total production in three states in all six years is represented by a pie-chart, what is the central angle of the sector representing production in the year 2014, (to nearest whole number)?

A 65°

B 61°

C 59°

D 63°

Answer: D

Question 66

If $\operatorname{cosec} 3\theta = \sec(20^\circ + 2\theta),\ then\ \theta$ **is equal to:**

A 14°

B 20°

C 30°

D 15°

Answer: A

Instructions

Table shows the production of rice (in million tonnes) of three states over six years.

States	Years					
	2011	2012	2013	2014	2015	2016
A	5.2	5.4	5.8	6.2	6.5	6.9
B	3.8	4.1	4.4	4.8	5.2	5.7
C	4.5	5.2	5.8	6.4	6.7	7.4

Question 67

What is the percentage increase in the production of rice in B from 2014 to 2016?

A 17.75

B 17.25

C 18.75

D 18.25

Answer: C

Question 68

What is the ratio of the production of rice in all three states in the year 2014 to that in 2016?

A 89 : 100

B 85 : 102

C 85 : 103

D 87 : 100

Answer: D

Instructions
For the following questions answer them individually

Question 69

The value of: $7.5 + (5.4 \div 4.5 \times 2) - 8 \times 4 \div 3.2$

A -0.2

B 0.1

C -0.1

D 0.2

Answer: C

Question 70

The value of $\sin^2 20^\circ + \sin^2 70^\circ - \tan^2 45^\circ + \sec 60^\circ$ **is equal to:**

A 2

B 1

C 2.5

D 3

Answer: A

Question 71

The arc ABC of a circle with centre O subtends 132 at the centre. The chord AB is extended to the point P. The angle ∠CBP is equal to

A 48°

B 66°

C 76°

D 68°

Answer: B

Question 72

The difference between compound interest and simple interest on ₹ x at 8% per annum for 2 years is ₹ 48. What is the value of x?

A 7500

B 7400

C 8000

D 7800

Answer: A

Question 73

If a + b + c = 6 and $a^3 + b^3 + c^3 - 3abc$ = 126, then ab + bc + ca is equal to:

A 12

B 8

C 5

D 6

Answer: C

Question 74

If a + b = 5 and ab = 3, then $(a^3 + b^3)$ is equal to:

A 75

B 80

C 70

D 65

Answer: B

Question 75

The price of sugar is increased by 24%. A person wants to increase his expenditure by 15% only. By what percentage, correct to one decimal place, should he reduce his consumption?

A 7.1

B 7.3

C 6.9

D 7.5

Answer: B

English

Instructions
For the following questions answer them individually

Question 76

Select the correctly spelt word.

A qiete

B quiet

C queit

D quiete

Answer: B

Question 77

Select the most appropriate synonym of the given word.
ASSIST

A help

B create

C change

D mend

Answer: A

Question 78

Select the word which means the same as the group of words given.
That which cannot be heard

A hidden

B inaudible

C slight

D invisible

Answer: B

Question 79

Choose the option that is the passive form of the sentence.
A campus fire in California caused the death of at least twenty-three persons.

A The death of at least twenty three persons will be caused in a campus fire in California.

B The death of at least twenty three persons was caused by a campus fire in California.

C At least twenty-three person's death was caused in a campus fire in California.

D The death of at least twenty three persons caused a campus fire in California.

Answer: B

Question 80

Identify the segment in the sentence, which contains the grammatical error.
"Unless you did not do your homework you will be punished," said the teacher.

A Unless you did not

B said the teacher.

C do your homework

D you will be punished

Answer: A

Question 81

Select the most appropriate synonym of the given word
INTRICATE

A complex

B complete

C connected

D colorful

Answer: A

Question 82

Select the most appropriate antonym of the given word.
ABSURD

A sensible

B selfish

C sentimental

D sensitive

Answer: A

Question 83

Select the most appropriate option to fill in the blank.
When you want to expand your vocabulary the best thing to do is to relate a known word with an _____ one and guess the meaning from the context.

A unnecessary

B unfamiliar

C essential

D unclear

Answer: B

Question 84

Given below are four jumbled sentences. Select the option that gives their correct order.
A. If the mixture becomes too thick add more milk.
B. Finally, add sugar and nuts, and your kheer is ready.
C. Boil milk in a heavy-bottomed pan and add rice.
D. Cook for about twenty minutes stirring every once in a while till the mixture thickens.

A DACB

B BADC

C ADCB

D CDAB

Answer: D

Question 85

Select the alternative that will improve the underlined part of the sentence in case there is no improvement select "No improvement"
I am very much pleased to see you here today.

A No improvement

B very pleasing

C very pleased

D too much pleased

Answer: C

Question 86

Select the correctly spelt word.

A restaurent

B roberry

C meazure

D leisure

Answer: D

Question 87

Select the most appropriate option to fill in the blank.
In order to _____ to a new place you may need to adjust to the ways of that culture.

A avoid

B adapt

C adhere

D adopt

Answer: B

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:
Although a wild elephant, Chinna Thambi did not grow up entirely in the wild. For over the last (1) _____he has had easy (2)_____ to food at Thadagam, a village surrounded by the Western Ghats near Coimbatore. Brick (3) _____ tempted him with (4)_____ of water and he loved the palm pith that was used as (5)_____ for baking bricks.

Question 88

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

A annual

B summer

C festival

D decade

Answer: D

Question 89

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

A entry

B access

C way

D approach

Answer: B

Question 90

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

A kilns

B jar

C tub

D store

Answer: A

Question 91

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

A load

B many

C much

D plenty

Answer: D

Question 92

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

A logs

B fuel

C matter

D fodder

Answer: B

Instructions
For the following questions answer them individually

Question 93

Select the most appropriate meaning of the underlined idiom in the given sentence.
Throughout his speech the crowd was <u>all ears.</u>

A making a lot of noise

B talking loudly

C very attentive

D covering their ears

Answer: C

Question 94

Choose the option that is the active form of the sentence.
It was decided by the members that the report would be placed before the Chairman for his comments.

A Did the members decide to place the report before the Chairman?

B The Chairman's comments were to be placed on the report of the members.

C The members decided to place the report before the Chairman for his comments.

D The Chairman decided to place the report before the members.

Answer: C

Question 95

Select the alternative that will improve the underlined part of the sentence in case there is no improvement select "No improvement".
The flowers smell so sweetly that I want to pluck them.

A smell so sweet

B No improvement

C smelling so sweetly

D will smell so sweet

Answer: A

Question 96

Identify the segment in the sentence, which contains the grammatical error.
The reduction in the cost of education due to an increase in subsidies offer by the government is also seen as a reason to get more educated.

A The reduction in the cost of education

B is also seen as a reason

C due to an increase in subsidies

D offer by the government

Answer: D

Question 97

Select the most appropriate antonym of the given word.
ACQUIT

A clear

B evict

C convict

D forgive

Answer: C

Question 98

Given below are four jumbled sentences. Select the option that gives their correct order.
A. This network of stories is known in academic circles as 'fiction' or ‘imagined realities'.
B. However, an imagined reality is not a lie.
C. Over the years, people have woven an incredibly complex network of stories.
D. Within this network fiction not only exists but also accumulates immense power.

A CADB

B DBCA

C ADBC

D DBAC

Answer: A

Question 99

Select the most appropriate meaning of the underlined idiom in the given sentence.
Since he secured the first rank Sudhir has become swollen-headed.

A well-connected

B unwell

C famous

D conceited

Answer: D

Question 100

Select the word which means the same as the group of words given.
Incapable of being corrected

A inviolable

B impossible

C incredible

D incorrigible

Answer: D