

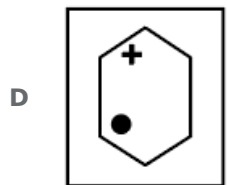
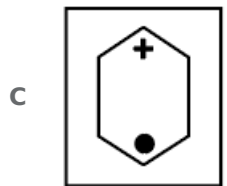
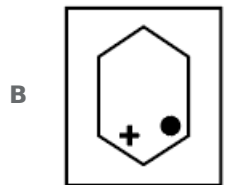
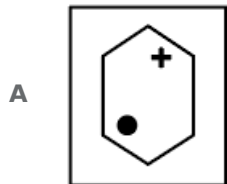
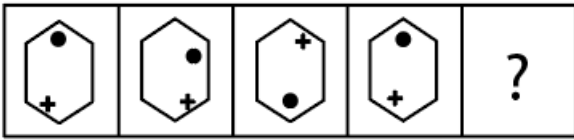
Reasoning

Instructions

For the following questions answer them individually

Question 1

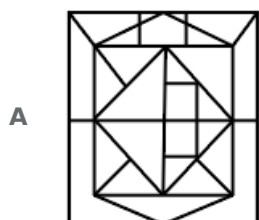
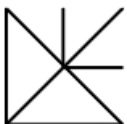
Select the figure that will come next in the following figure series.



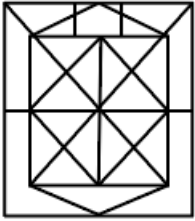
Answer: D

Question 2

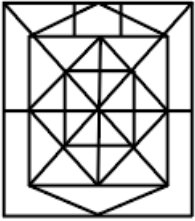
Select the figure in which the given figure is embedded. (Rotation is not allowed)



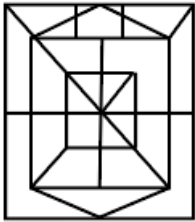
B



C



D



Answer: C

Question 3

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

A PUYBD

B EJNQS

C TYBEG

D JOSVX

Answer: C

Question 4

In a code language, SELECTION is written as ESELDITNO. How will NOSTALGIA be written in the same language?

A ONTSBGLAI

B ONTSZGLAI

C NOTSBLGAI

D ONSTBGLAI

Answer: A

Question 5

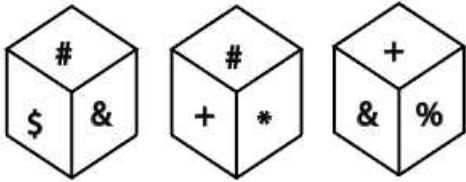
The sum of the current ages of Natasha and Krishna is 50 years. 10 years ago, Krishna was twice as old as Natasha. What is Krishna's current age?

- A 15 years
- B 20 years
- C 10 years
- D 30 years

Answer: D

Question 6

Three different positions of the same dice are shown below. Which symbol is on the face opposite the face showing '*' ?



- A +
- B %
- C #
- D &

Answer: D

Question 7

Select the letter cluster that will come next in the following series. ADH, XAE, UXB, RUY, ?

- A PRV
- B ORU
- C OSV
- D ORV

Answer: D

Question 8

Arrange the following words in a logical and meaningful order.

1. Kidney
2. Heart
3. Brain
4. Thyroid gland
5. Liver

- A 3, 4, 2, 5, 1
- B 3, 2, 4, 5, 1

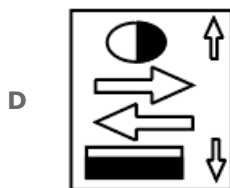
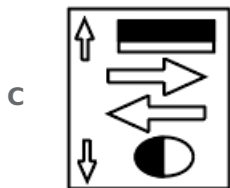
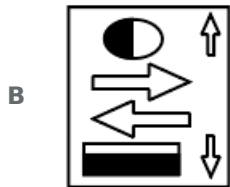
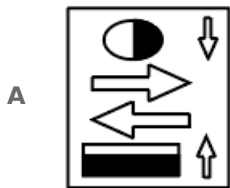
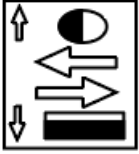
C 3, 4, 2, 1, 5

D 3, 2, 4, 1, 5

Answer: A

Question 9

Select the correct mirror image of the given figure when a vertical mirror is placed on the right of the figure.



Answer: D

Question 10

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 squirrels are lizards.

All lizards are goose.

Conclusions:

I. Some squirrels are not goose.

II. Some lizards are squirrels.

III. Some goose are squirrels.

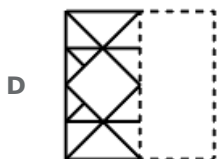
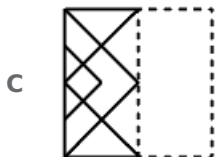
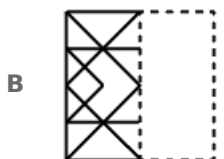
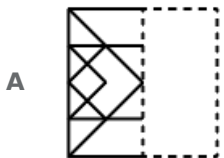
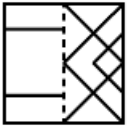
A Conclusions I and II follow

- B** Conclusions I, II and III follow
- C** Conclusions I and III follow
- D** Conclusions II and III follow

Answer: D

Question 11

Given below is a transparent sheet of paper with a pattern on the left and right side. How will the pattern appear when the transparent sheet is folded on the dotted line ?



Answer: B

Question 12

Select the number that will replace ? in the following series.
120, 128, 144, 168, ?, 240

- A** 216
- B** 202
- C** 208
- D** 200

Answer: D

Question 13

A + B means 'A is the mother of B'

A - B means 'A is the father of B'

A × B means 'A is the sister of B'

A ÷ B means 'A is the daughter of B'

If **P + R × T - Q ÷ S + U**, then how is **S** related to **T** ?

A Daughter

B Sister

C Mother

D Wife

Answer: D

Question 14

Which two signs should be interchanged to make the given equation correct?

$$27 \div 3 - 18 + 3 \times 2 = 18$$

A \div and \times

B $+$ and \div

C $+$ and $-$

D \times and $+$

Answer: B

Question 15

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

Walnut : Fig

A Almond : Dry fruits

B Turmeric : Spices

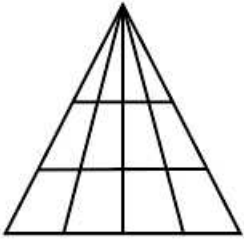
C Asafoetida : Cashew nuts

D Raisin: Apricot

Answer: D

Question 16

How many triangles are there in the figure given below ?



A 32

B 36

C 24

D 30

Answer: D

Question 17

In a code language, if PICTURE is coded as 16932021185 then how will FUNCTION be coded in the same language?

A 6211432091514

B 6211432091413

C 6211332091513

D 6211432081514

Answer: A

Question 18

Find the missing number from the below options.

4 6 7

5 3 ?

41 45 58

A 9

B 51

C 12

D 3

Answer: D

Question 19

Select the option that is related to the third number in the same way as the second number is related to the first number.

16 : 240 :: 6 : ?

- A 25
- B 30
- C 35
- D 40

Answer: B

Question 20

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

- A Honesty
- B Integrity
- C Truthfulness
- D Hypocrisy

Answer: D

Question 21

Select the term that will replace the question mark (?) in the following series.

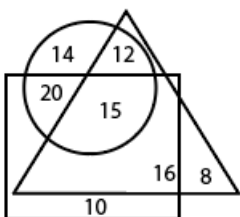
A, G, L, ?, S, U, V

- A O
- B P
- C Q
- D N

Answer: B

Question 22

In the Venn diagram given below, the circle represents 'Ladies', the triangle represents 'Constables' and the square represents 'Married persons'. The numbers given in the diagram represents number of persons of that particular category.



How many lady constables are NOT married?

- A 14
- B 12
- C 8
- D 15

Answer: B

Question 23

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

- A 4 : 16
- B 14 : 196
- C 12 : 244
- D 2 : 4

Answer: C

Question 24

'Insulin' is related to 'Hormone' in the same way as 'Pepsin' is related to '

- A Digestion
- B Vitamins
- C Stomach
- D Enzymes

Answer: D

Question 25

Find the missing number from the below options.

9	25	49
6	11	13
9	16	?

- A 19
- B 20
- C 21
- D 18

Answer: B

General knowledge

Instructions

For the following questions answer them individually

Question 26

The 'Tanakh' is the sacred text of which religion/sect?

- A Taoism
- B Confucianism
- C Zen Buddhism
- D Judaism

Answer: D

Question 27

In which year was the 'Battle of Goa' fought?

- A 1510
- B 1502
- C 1524
- D 1514

Answer: A

Question 28

The phrase 'Survival of the fittest' as a way of describing the mechanism of natural selection was coined by _____.

- A Marie Curie
- B Charles Babbage
- C Herbert Spencer
- D Louis Pasteur

Answer: C

Question 29

In which province of China is the Huangguoshu National Park located which houses the world's largest waterfall cluster.

- A Yunnan
- B Jiangsu

- C Guizhou
- D Shandon

Answer: C

Question 30

Bhavai' is a traditional dance form of _____.

- A Punjab
- B Maharashtra
- C Bihar
- D Gujarat

Answer: D

Question 31

DNA is stored majorly in _____ of the cell.

- A plasma membrane
- B nucleus
- C cytoplasm
- D golgi body

Answer: B

Question 32

The 'Friendship Highway' is a road that connects China to _____.

- A Pakistan
- B Myanmar
- C Nepal
- D India

Answer: C

Question 33

The former princely state of Tripura in the north-eastern part of India was ruled by _____ Dynasty.

- A Ahom
- B Nagvanshi
- C Manikya

D Haihaya

Answer: C

Question 34

Which of the following was a port city of the Indus Valley Civilization?

A Kalibangan

B Rakhigarhi

C Dholavira

D Lothal

Answer: D

Question 35

Cash Reserve Ratio (CRR) is calculated as a percentage of each bank's ____.

A savings of customers

B credit growth

C rate of inflation

D net demand and time liabilities

Answer: D

Question 36

The Indus Water Treaty was signed between India and ____.

A China

B Bangladesh

C Pakistan

D Afghanistan

Answer: C

Question 37

In which part of the female flower does fertilisation take place?

A Ovary

B Filament

C Style

D Stigma

Answer: A

Question 38

Who among the following is the only Indian to have won the Amateur World title in both, snooker and billiards?

- A** Michael Ferreira
- B** Pankaj Advani
- C** Subhash Agarwal
- D** Geet Sethi

Answer: B

Question 39

World Water Day' is annually celebrated on _____.

- A** 2nd June
- B** 13th August
- C** 15th January
- D** 22nd March

Answer: D

Question 40

When was the Constitution of Pakistan enforced?

- A** 1965
- B** 1973
- C** 1947
- D** 1952

Answer: B

Question 41

Harsh Vardhan, the union minister for Environment, Forest and Climate Change launched the India Cooling Action Plan (ICAP). On which day was ICAP released?

- A** 26th January
- B** 8th March
- C** 15th February
- D** 27th February

Answer: B

Question 42

Night Blindness is caused by the deficiency of Vitamin _____.

- A** A
- B** C
- C** K
- D** B12

Answer: A

Question 43

About 70% of the sun is made up of _____.

- A** Helium
- B** Hydrogen
- C** Oxygen
- D** Carbon

Answer: B

Question 44

Which Indian author wrote the book 'The English Teacher'?

- A** Ruskin Bond
- B** R K Narayan
- C** Khushwant Singh
- D** Vikram Seth

Answer: B

Question 45

Which one of the following is the highest altitude lake of Pakistan?

- A** Satpara Lake
- B** Paristan Lake
- C** Attabad Lake
- D** Rush Lake

Answer: B

Question 46

The interest rate charged by banks on short-term loans to their largest, most secure and most creditworthy customers is called ____.

- A** Prime Lending Rate
- B** Variable Rate
- C** Amortised Rate
- D** Discount Rate

Answer: A

Question 47

The Constitution of India was amended for the first time in which year?

- A** 1954
- B** 1961
- C** 1951
- D** 1960

Answer: C

Question 48

____ assumed the title of 'Gangaikondachola' or the conqueror of the river Ganga.

- A** Rajaraja Chola I
- B** Vijjayalay Chola
- C** Rajendra Chola I
- D** Rajadhiraja Chola

Answer: C

Question 49

Which of the following Indian authors is one of the four screenplay writers of the movie 'Kai Po Che'?

- A** Chetan Bhagat
- B** Ravinder Singh
- C** Amish Tripathi
- D** Durjoy Datta

Answer: A

Question 50

_____ became the most successful doubles player in the history of Davis Cup as on 2018.

- A Mark Woodforde
- B Henri Leconte
- C Leander Paes
- D Leon Smith

Answer: C

Quant

Instructions

For the following questions answer them individually

Question 51

The value of $\sin^2 48^\circ + \sin^2 42^\circ - \sec^2 30^\circ + \tan^2 60^\circ$ is equal to:

- A 2
- B $\frac{7}{3}$
- C $\frac{8}{3}$
- D $\frac{5}{3}$

Answer: C

Question 52

For what value of x is the seven digit number 46393x8 divisible by 11 ?

- A 3
- B 2
- C 7
- D 5

Answer: A

Question 53

If $a : b = 5 : 8$ and $c : b = 4 : 3$, then $a : b : c$ is equal to:

- A 15 : 24 : 32
- B 15 : 24 : 28
- C 5 : 6 : 8

D 5 : 8 : 6

Answer: A

Question 54

In $\triangle ABC$, P is a point on BC such that $BP : PC = 1 : 2$ and Q is the mid point of BP. Then, $\text{ar}(\triangle ABQ) : \text{ar}(\triangle ABC)$ is equal to:

A 1 : 6

B 1 : 4

C 1 : 5

D 1 : 3

Answer: A

Question 55

The difference between the compound interest and simple interest on ₹x at 12% per annum for 2 years is ₹18. What is the value of x?

A 1,250

B 1,280

C 1,340

D 1,300

Answer: A

Question 56

If $a + b = 8$ and $ab = \frac{32}{3}$, then $(a^3 + b^3)$ is equal to:

A 128

B 256

C 384

D 320

Answer: B

Question 57

If $a + b + c = 4$ and $ab + bc + ca = 2$, then $a^3 + b^3 + c^3 - 3abc$ is equal to:

A 32

B 48

C 40

D 36

Answer: C

Question 58

A is 50% more efficient than B and C is 40% less efficient than B. Working together, they can complete a task in 10 days. In how many days will A alone complete 150% of that task?

A 31

B 33

C 28

D 35

Answer: A

Question 59

If $\sqrt{x} + \frac{1}{\sqrt{x}} = \sqrt{7}$, then $x^3 + \frac{1}{x^3}$ is equal to:

A 110

B 130

C 120

D 140

Answer: A

Question 60

If $\sec \theta = \frac{13}{5}$, then $\tan \theta - \sin \theta + \cos \theta$ is equal to:

A $\frac{23}{13}$

B $\frac{118}{65}$

C $\frac{121}{65}$

D $\frac{124}{65}$

Answer: C

Question 61

This table shows the number of students studying in various streams in different colleges.

Streams	Colleges				
	A	B	C	D	E
Arts	580	460	320	470	370
Science	620	680	540	360	400
Commerce	480	520	350	520	330

What is the ratio of the number of students studying science in colleges A and B together to the number of students studying commerce in colleges D and E together?

- A 13 : 8
- B 23 : 15
- C 21 : 17
- D 26 : 17

Answer: D

Question 62

If $\sin 5\theta = \cos(50^\circ - 3\theta)$, then θ is equal to:

- A 25°
- B 15°
- C 20°
- D 30°

Answer: C

Question 63

In a circle with centre O, AB is the diameter and CD is a chord such that ABCD is a trapezium. If $\angle BAC = 24^\circ$, then $\angle CAD$ is equal to:

- A 48
- B 36
- C 42
- D 24

Answer: C

Question 64

The price of sugar is increased by 21%. A person wants to increase his expenditure by 12% only. By what percent, correct to one decimal place, should he reduce his consumption?

- A 7.6%

B 7.2%

C 7.8%

D 7.4%

Answer: D

Question 65

Two chords AB and CD of a circle intersect at a point P inside the circle. If $AB = 7$ cm, $PC = 2$ cm and $AP = 4$ cm, then CD is equal to:

A 4 cm

B 6 cm

C 8 cm

D 5 cm

Answer: C

Question 66

train without stoppage travels with an average speed of 80 km/h and with stoppage, it travels with an average speed of 72 km/h. For how many minutes does the train stop on an average per hour?

A 6

B 8

C 9

D 7

Answer: A

Question 67

This table shows the number of students studying in various streams in different colleges.

Streams	Colleges				
	A	B	C	D	E
Arts	580	460	320	470	370
Science	620	680	540	360	400
Commerce	480	520	350	520	330

The number of students in the science stream of college C is approximately what percentage of students studying in that college?

A 43%

B 42%

C 44%

D 45%

Answer: D

Question 68

The radii of the two circular faces of the frustum of a cone of height 14 cm are 5 cm and 2 cm. What is its volume in cm^3 ($\pi = \frac{22}{7}$)

- A 540
- B 572
- C 520
- D 560

Answer: B

Question 69

$\triangle ABC \sim \triangle PQR$ and $AB = 8$ cm, $BC = 12$ cm and $AC = 6$ cm. If $\text{ar}(\triangle ABC) : \text{ar}(\triangle PQR) = 16 : 25$, then RQ is equal to:

- A 10 cm
- B 15 cm
- C 7.5 cm
- D 12.5 cm

Answer: C

Question 70

This table shows the number of students studying in various streams in different colleges.

Streams	Colleges				
	A	B	C	D	E
Arts	580	460	320	470	370
Science	620	680	540	360	400
Commerce	480	520	350	520	330

What is the average of the number of students in the arts stream in all the colleges taken together?

- A 440
- B 460
- C 450
- D 470

Answer: A

Question 71

The value of: $5.8 + (7.4 \div 3.7 \times 5) - 6 \times 2 \div 2.5$

- A 12

B 11

C 9

D 10

Answer: B

Question 72

An article is sold for ₹535.50 after two successive discounts of 25% and 15%. What is the marked price of the article?

A ₹820

B ₹800

C ₹840

D ₹830

Answer: C

Question 73

In a class of 50 students, 46% are girls and the remaining are boys. The average of the boys' marks is 58 and that of the girls is 62. What are the average marks of the whole class?

A 60.38

B 60.65

C 59.84

D 60.12

Answer: C

Question 74

This table shows the number of students studying in various streams in different colleges.

Streams	Colleges				
	A	B	C	D	E
Arts	580	460	320	470	370
Science	620	680	540	360	400
Commerce	480	520	350	520	330

If the data about students of the commerce stream in all colleges is represented by a pie-chart, what is the central angle of the sector representing college D, to the nearest degree?

A 85°

B 88°

C 80°

D 82°

Answer: A

Question 75

Two articles are sold for ₹2508 each. On one, there is a gain of 14% and on the other, there is a loss of 12%. What is the overall gain or loss percent to nearest one decimal place?

- A 0.5% gain
- B 0.7% loss
- C 0.7% gain
- D 0.5% loss

Answer: B

English

Instructions

For the following questions answer them individually

Question 76

Select the most appropriate option to substitute the underlined segment in the given sentence. If no substitution is required, select No improvement.

She was so tired to work any longer.

- A so tired to not work
- B so tiring to work
- C No improvement
- D too tired to work

Answer: D

Question 77

In the sentence identify the segment which contains the grammatical error.
He is more smarter than his brother though he does not earn much money.

- A though he does not earn
- B much money
- C He is more smarter
- D than his brother

Answer: C

Instructions

Select the most appropriate option to fill in the blank.

Question 78

The accident victim _____ to his injuries before he could be taken to the hospital.

- A surrendered
- B succumbed
- C subscribed
- D submitted

Answer: B

Question 79

We should never _____ with the rules of driving.

- A temper
- B trifle
- C reckon
- D tamper

Answer: D

Instructions

For the following questions answer them individually

Question 80

Select the most appropriate synonym of the given word.

EXALT

- A praise
- B condemn
- C challenge
- D extract

Answer: A

Question 81

Select the correctly spelt word.

- A manipulate
- B manipulete
- C menipulate
- D manepulate

Answer: A

Question 82

Select the correct passive form of the given sentence
It is time to serve dinner.

- A** It is time for dinner to be served.
- B** It is time that dinner is serve.
- C** It is dinner serving time.
- D** It is time so dinner should be served.

Answer: A

Question 83

Select the most appropriate antonym of the given word.
VIGILANT

- A** visible
- B** careless
- C** careful
- D** elusive

Answer: B

Question 84

Select the correct active form of the given sentence.
Superstitions are still believed in by people.

- A** People still believed in superstitions.
- B** People are still believing in superstitions.
- C** People have still believed in superstitions.
- D** People still believe in superstitions.

Answer: D

Question 85

Select the word which means the same as the group of words given.
The act of looking back on past time

- A** introspection
- B** inspection
- C** circumspection
- D** retrospection

Answer: D

Question 86

Select the correctly spelt word.

- A arguement
- B argeument
- C arguemant
- D argument

Answer: D

Question 87

Select the most appropriate antonym of the given word.
EXTRAVAGANT

- A thrifty
- B deficit
- C pauper
- D generous

Answer: A

Question 88

In the sentence identify the segment which contains the grammatical error.
The child along with his parents were waiting for the programme to begin.

- A The child
- B along with his parents
- C were waiting for the
- D programme to begin

Answer: C

Question 89

Given below are four jumbled sentences. Select the option that gives their correct order.

- A. The first of these states that the only way to have a friend is to be one.
- B. Like all relationships, it is also governed by some well-defined principles.
- C. Friendship is one of the most coveted relationships on earth.
- D. Thus, one must be reliable as a friend to expect reliability in others.

- A BDAC
- B CBAD

C ACBD

D CDBA

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:

The Bhopal gas tragedy has been described as the world's (1)_____ industrial disaster. Forty two tonnes of methyl isocyanate (2)_____ from the steel containers (3)_____ the Union Carbide factory and released a cloud of (4)_____ gas. It left a legacy of instant and (5)_____ death.

Question 90

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

A worse

B bad

C worst

D best

Answer: C

Question 91

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

A leaked

B flowed

C released

D emitted

Answer: A

Question 92

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

A beside

B along

C at

D across

Answer: C

Question 93

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

- A merciless
- B deathly
- C abominable
- D incurable

Answer: B

Question 94

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

- A deferred
- B momentary
- C averted
- D detained

Answer: A

Instructions

For the following questions answer them individually

Question 95

Select the most appropriate option to substitute the underlined segment in the given sentence. If no substitution is required, select No improvement.

He made a desperate but also partial successful effort to change the ghastly topic.

- A No improvement
- B but partially successful effort
- C yet also partial successful effort
- D though part successful effort

Answer: B

Question 96

Given below are four jumbled sentences. Select the option that gives their correct order.

- A. But that is for an emotional reason.
- B. Learning our mother tongue is important and everyone should start there.
- C. This is because proficiency in the language can lead to better opportunities.
- D. Learning English, however, is important for practical reasons.

- A BADC
- B DACB
- C BDCA
- D DBAC

Answer: A

Question 97

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

- A insatiable
- B impossible
- C improbable
- D incredible

Answer: A

Question 98

Select the most appropriate synonym of the given word.
CONCISE

- A detailed
- B brief
- C lengthy
- D complex

Answer: B

Instructions

Select the most appropriate meaning of the underlined idiom in the given sentence.

Question 99

One must learn to prioritize in life. It never pays to put the cart before the horse.

- A do last things first
- B postpone till the last moment
- C perform many tasks simultaneously
- D do things spontaneously

Answer: A

Question 100

His success at such a young age speaks volumes for his talent.

- A publically announces
- B showers praise
- C boasts a lot
- D gives enough proof

Answer: D

