



RRB JE 1st June 2019 Shift-1

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Instructions

For the following questions answer them individually

Question 1

Which of the following will show 'Tyndall effect?'

- A Milk
- B Sugar solution
- C Salt solution
- D Copper sulphate solution

Answer: A

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Question 2

Which word will best complete the relationship given below?

Physician : Treatment :: Judge : ?

- A Lawyer
- B Court
- C Judgement
- D Arrest

Answer: C

Question 3

In a certain code, 15789 is written as 'XTZAL' and 2346 is written as 'NPSU'. How is 23549 written in that code?

- A NPZTX
- B NPTSL
- C NPLUS
- D NPSUL

Answer: B

Question 4

Find the volume of a sphere whose surface area is $1386m^2$.

- A $3850 m^3$
- B $4651 m^3$
- C $4851 m^3$
- D $5711 m^3$

Answer: C

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Question 5

Find the ODD one out from the given options.

- A 144
- B 400
- C 196
- D 225

Answer: D

Question 6

Simplify: 0.05×0.002

- A 0.01
- B 0.0001
- C 0.1
- D 0.001

Answer: B

Question 7

Which machine part is used to reduce friction between hubs and axles of ceiling fans and in bicycles ?

- A Ball bearings
- B Springs
- C Nuts
- D Bolts

Answer: A

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Question 8

Eighteen men can complete a piece of work in 64 days. 9 women can complete it in 108 days, whereas 7 children can finish it in 216 days. How many days will 16 men, 9 women and 21 children together take to complete the same work?

- A 42
- B 27
- C 32
- D 45

Answer: B

Question 9

Which of the following is the number of oscillations per unit time of the sound wave?

- A Amplitude
- B Frequency
- C Time period
- D Wavelength

Answer: B

Question 10

Five years ago, ratio of ages of P and Q was 7 : 9. Ten years hence, this ratio would become 5 : 6. What is the ratio at present?

- A 4 : 5
- B 6 : 7
- C 2 : 1
- D 5 : 4

Answer: A

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Question 11

Which of the following material has a shiny appearance?

- A Carbon
- B Sulphur
- C Aluminium
- D Coal

Answer: C

Question 12

Which colour among the seven colours of white light gets least deviated after dispersion of light through a glass prism?

- A Orange
- B Violet
- C Indigo
- D Red

Answer: D

Question 13

In this question, two statements are given followed by two conclusions. Choose the conclusion(s) which best fit(s) logically.

Statements:

- 1) All trees are flowers.
- 2) All flowers are grasses.

Conclusions:

- I. All trees are grasses.
- II. Some flowers are grasses.

- A Only conclusion I follows
- B Only conclusion II follows
- C Both conclusions I and II follow
- D Either conclusion I or II follows

Answer: C

RRB Group-D Previous Papers

Question 14

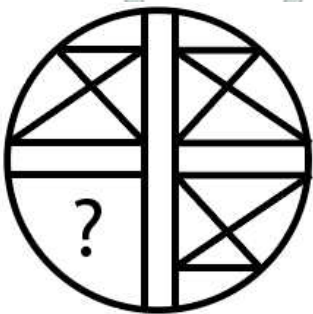
Two numbers are in the ratio 1 : 4 and their LCM and HCF are 84 and 21. Find the smaller number.

- A 108
- B 21
- C 18
- D 84

Answer: B

Question 15

Choose from the alternatives the figure that best completes the pattern given below.



A





Answer: B

Question 16

On which of the following river banks is Jammu situated?

- A Tapti
- B Tungabhadra
- C Tawi
- D Mahanadi

Answer: C

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Question 17

Which of the following is the world's longest venomous snake?

- A Coral snake
- B Viper
- C King Cobra
- D Mamba

Answer: C

Question 18

Which part of the ear turns the sound vibrations to electrical signals?

- A Auditory canal
- B Pinna
- C Tympanic membrane

D Cochlea

Answer: D

Question 19

The chemical process by which glucose is broken down anaerobically is known as?

A Sublimation

B Sintering

C Fermentation

D Distillation

Answer: C

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Question 20

National Bamboo Mission is a sponsored scheme of Ministry of

A Chemicals and fertilizers

B Environment, Forests and Climate Change

C Agriculture and farmers welfare

D Water Resources

Answer: C

Question 21

A man walks 3 km towards west and walks 2 km to south. Again he turns east and walks for 0.5 km. How far is he from the starting point?

A 2.5 km

B 2 km

C 3 km

D 3.2 km

Answer: D

Question 22

On which principle does the human eye work?

A Reflection of light

B Refraction of light

C Scattering of light

D Dispersion of light

Answer: B

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Question 23

Simplify: $\sin(30^\circ - A) + \sin(30^\circ + A)$

- A $2 \sin A$
- B $2 \cos A$
- C $\sin A$
- D $\cos A$

Answer: D

Question 24

The repayment of a loan after 6 years at rate of 24% Simple Interest is Rs.73200. What is the amount borrowed?

- A Rs.42000
- B Rs.30000
- C Rs.45000
- D Rs.30800

Answer: B

Question 25

Ages of two brothers differ by 7 and are in the ratio 3 : 2. What is the sum of their ages?

- A 21
- B 42
- C 35
- D 45

Answer: C

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Question 26

Atoms of the same element or of different elements can join together to form?

- A Elements
- B Ions
- C Molecules
- D Alloys

Answer: C

Question 27

The chemical formula of gypsum is ?

- A $Na_2CO_3 \cdot 8H_2O$
- B $CaSO_4 \cdot 3H_2O$
- C $Na_2CO_3 \cdot 10H_2O$
- D $CaSO_4 \cdot 2H_2O$

Answer: D

Question 28

Vitamin B1 is also called as

- A Niacin
- B Thiamine
- C Biotin
- D Ascorbic acid

Answer: B

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Question 29

An inlet pipe will fill a tank in 10 minutes. There are two outlets that can empty the tank separately in 12 and 15 minutes respectively. If all the pipes are opened and water starts filling up the tank, in what time will the tank get filled or emptied ?

- A Emptied in 20 minutes
- B Filled in 36 minutes
- C Emptied in 18 minutes
- D Filled in 75 minutes

Answer: A

Question 30

Who was the first woman ruler of Delhi?

- A Razia Sultana
- B Chand Bibi
- C Manikarnika
- D Rani Roopmati

Answer: A

Question 31

In a certain code language, 'tom na rod' means 'give me sweet', 'jo ta rod' means 'you and me', 'pot ta noc' means 'you are good', and 'jo mit noc' means 'good and bad'. Which of the following represents 'bad' in that language ?

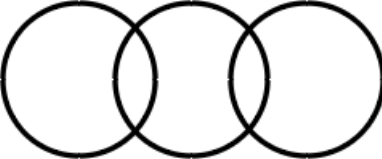
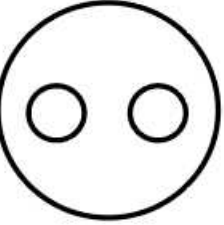
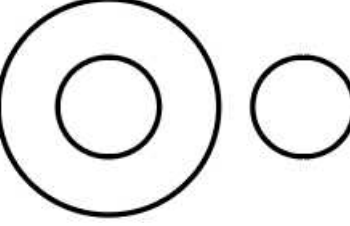
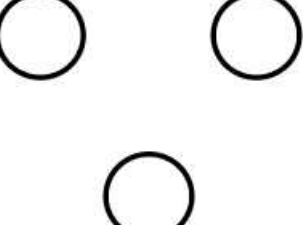
- A jo
- B noc
- C rod
- D mit

Answer: D

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Question 32

Choose the figure that best represents the relationship among the classes given below.
Truck, Ship, Goods

- A 
- B 
- C 
- D 

Answer: A

Question 33

If only the measures of the diagonals are given, which of these quadrilateral can be constructed?

1) Square 2) Rectangle 3) Rhombus

- A 1 and 3

B 1 and 2

C 3 only

D 1 only

Answer: A

Question 34

Find the missing number in the series.

(...), 16, 20, 11, 18, 6

A 15

B 14

C 22

D 17

Answer: C

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Question 35

The difference between two integers is 5 and their product is 500. Find the numbers.

A 30, 25

B 25, 20

C 15, 20

D 21, 26

Answer: B

Question 36

Fullerene consists of _____ carbon atoms.

A 32

B 48

C 4

D 60

Answer: D

Question 37

_____ has been awarded with the Padma Vibhushan award in 2019.

A Manoj Bajpayee

B Anilkumar Manibhai Naik

C Darshan Lal Jain

D Nanaji Deshmukh

Answer: B

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Question 38

The population of a town increased by 10% and 20% in two successive years, but decreased by 25% in the third year. Find the ratio of the population in the third year and the population 3 years back.

A 1 : 1

B 2 : 1

C 99 : 100

D 100 : 99

Answer: C

Question 39

When the number of atoms of each element is the same on both sides of the equation, it is a/an?

A Skeletal equation

B Unbalanced equation

C Balanced equation

D Mixed equation

Answer: C

Question 40

The mean of a distribution is 14 and standard deviation is 5. Find the coefficient of variation.

A 48.3%

B 60.4%

C 27.9%

D 35.7%

Answer: D

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Question 41

If $2x + y = 35$ and $3x + 4y = 65$, find the value of x/y .

A 3

B 9

C 5

D 7

Answer: A

Question 42

Find the ODD one out from the given options.

A Baseball

B Football

C Chess

D Volleyball

Answer: C

Question 43

Tank 'A' is two-fifths full. Pipe P can fill it in 10 minutes while pipe Q can empty it in 6 minutes. In what time will the tank get empty, if both P and Q are opened?

A 7 minutes

B 6 minutes

C 6.5 minutes

D 5.5 minutes

Answer: B

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Question 44

What is the present position of India on the 2019 World Press Freedom Index (RSF)?

A 136

B 140

C 180

D 120

Answer: B

Question 45

A boat whose speed in still water is 15 km/h goes 30 km downstream and comes back upstream in 4.5 hours. What is the speed of water current?

A 10 km/h

B 4 km/h

C 5 km/h

D 6 km/h

Answer: C

Question 46

The difference between the Simple Interest on some principal at 8% for 8 months and 6% for 14 months is Rs.200. What is the principal?

- A Rs.14400
- B Rs.24000
- C Rs.12000
- D Rs.12800

Answer: C

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Question 47

The length of the direct common tangent to two circles of radii r_1 and r_2 and is the distance between their centres is:

- A $\sqrt{d^2(r_1r_2)}$
- B $\sqrt{d^2 - (r_1r_2)^2}$
- C $\sqrt{d^2 - (r_1 + r_2)^2}$
- D $\sqrt{d^2 - (r_1 - r_2)^2}$

Answer: D

Question 48

Ethanoic acid is commonly called?

- A Sulphuric acid
- B Acetic acid
- C Sulphonic acid
- D Hydrochloric acid

Answer: B

Question 49

In a certain code, 26 stands for 'A', 25 stands for 'B'. Which of the following stands for the name of a country?

- A 11-26-16-13
- B 16-26-11-14-26
- C 18-19-22-12-18-26
- D 13-22-11-26-15

Answer: D

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Question 50

How many litres of water must be added to 16 litres milk containing 10% water to dilute it with 20% water?

- A 4 litres
- B 1 litre
- C 3 litres
- D 2 litres

Answer: D

Question 51

A cycle bought at Rs.1400 is sold at a loss of 15%. What is the selling price?

- A Rs.1090
- B Rs.1385
- C Rs.1190
- D Rs.1290

Answer: C

Question 52

The number of protons in an atom of an element is equal to its?

- A Equivalent weight
- B Atomic weight
- C Electron affinity
- D Atomic number

Answer: D

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Question 53

The longest river of peninsular India is?

- A Tapti
- B Godavari
- C Mahanadi
- D Narmada

Answer: B

Question 54

Starting from a point, Ganesha walked 12 m north. Then, he turned right and walked 10 m, he again turned right and walked 12 m, then he turned left and walked 5 m. How far and in which direction is he now from the starting point?

- A 10 m, west
- B 10 m, east
- C 5 m, west
- D 15 m, east

Answer: D

Question 55

The _____ is the first citizen of India.

- A President
- B Vice-President
- C Member of Legislative Assembly
- D Prime Minister

Answer: A

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Question 56

Plants that grow in the absence of sunlight in water are called?

- A All of the options
- B Algae
- C Shrubs
- D Fungi

Answer: D

Question 57

The curved surface areas of two cones are in the ratio 2 : 1; their slant heights are in the ratio 1 : 2. What is the ratio of their radii?

- A 4 : 1
- B 1 : 1
- C 1 : 3
- D 1 : 4

Answer: A

Question 58

In the game of chess, which animal does a rook represent?

- A Elephant
- B Goat
- C Horse
- D Camel

Answer: A

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Question 59

Find the missing group of alphabets in the following series.

(...), PSV, EHK, TWZ, ILO

- A BEH
- B IMP
- C ADG
- D ZCF

Answer: C

Question 60

Edible part of banana is

- A Epicarp and mesocarp
- B Epicarp
- C Pericarp
- D Endocarp and mesocarp

Answer: D

Question 61

Area of a square field is 24200 m^2 . How long will it take for a person to cross the field diagonally at the rate of 4.4 km/h?

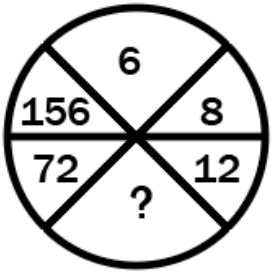
- A 4 minutes
- B 2.5 minutes
- C 2 minutes
- D 3 minutes

Answer: D

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Question 62

Choose the alternative that best replaces the question mark(?) in the given figure.



- A 49
- B 54
- C 61
- D 42

Answer: D

Question 63

Why does a nail have a pointed tip ?

- A The force acting on a larger area exerts a zero pressure
- B The force acting on a smaller area exerts a larger pressure
- C The force acting on a smaller area exerts a smaller pressure
- D The force acting on a larger area exerts a larger pressure

Answer: B

Question 64

Read the following information carefully and answer the question given below.

Seven members A, B, C, D, E, F and G represent different countries in Olympics, USA, China, Korea, France, Russia, Australia and Japan; each one competes for a different sport, viz. volleyball, archery, rifle shooting, tennis, boxing, athletics and football. The order of persons, countries and games is not necessarily the same. C represents China for archery. D represents USA but not for volleyball or rifle shooting. One who represents Japan competes for boxing. E competes for volleyball but not Korea. A represents Australia for athletics. The one who represents Russia competes for tennis. F does not represent Korea or Japan. G competes for rifle shooting.

Which of the following countries is represented by E?

- A Japan
- B France
- C Korea
- D Russia

Answer: B

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Question 65

What is the work done in moving a unit positive charge from infinity to that point, at that point?

- A Electric potential
- B Resistance
- C Charge
- D Current

Answer: A

Question 66

Who among the following was the youngest batsman to score 10,000 test runs, breaking the record previously held by Sachin Tendulkar?

- A Alastair Cook
- B Virat Kohli
- C Rahul Dravid
- D Kumar Sangakkara

Answer: B

Explanation:

Virat Kohli became only the fourth batsman to score 10,000 ODI runs for India and in the process, he also broke Sachin Tendulkar's record to become the fastest to reach the milestone.

Question 67

If '+' means '-', '-' means '×', '×' means '÷', and '÷' means '+' then $15 \times 3 \div 15 + 5 - 2 = ?$

- A 6
- B 10
- C 5
- D 20

Answer: B

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Question 68

A loss of 25% is incurred in selling an item for Rs.2400. What should be the selling price if there should be a profit of 25% ?

- A Rs.3600
- B Rs.4000
- C Rs.4200
- D Rs.2700

Answer: B

Question 69

A train 125 m long passes a man, running at 5 km/hr in the same direction in which the train is going, in 10 seconds. What is the speed of the train ?

- A 55 km/h
- B 45 km/h
- C 54 km/h
- D 50 km/h

Answer: D

Question 70

Evaluate: $45 \text{ of } \frac{3}{5} \div 1\frac{2}{7} + 3 \text{ of } \frac{1}{3} - 10$

- A 10
- B 15
- C 14
- D 12

Answer: D

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Question 71

Arrange the following fractions in ascending order.

$\frac{5}{9}, \frac{8}{3}, \frac{7}{5}, \frac{3}{5}, \frac{1}{9}$

- A $\frac{8}{3}, \frac{7}{5}, \frac{3}{5}, \frac{5}{9}, \frac{1}{9}$
- B $\frac{1}{9}, \frac{5}{9}, \frac{7}{5}, \frac{3}{5}, \frac{8}{3}$
- C $\frac{1}{9}, \frac{5}{9}, \frac{3}{5}, \frac{7}{5}, \frac{8}{3}$
- D $\frac{5}{9}, \frac{7}{5}, \frac{3}{5}, \frac{1}{9}, \frac{8}{3}$

Answer: C

Question 72

If $3*4 = 21$; $4*5 = 36$; $5*6 = 55$, then find $6*7$.

- A 67
- B 91
- C 42
- D 78

Answer: D

Question 73

Complete the series.

2, 3, 6, 18, (...)

- A 64
- B 96
- C 108
- D 46

Answer: C

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Question 74

In this question, a statement is given followed by four conclusions. Choose the conclusion(s) which best fit(s) logically.

Statement:

Ability is poor man's wealth.

Conclusions:

- I. A poor man can earn wealth if he has ability.
- II. A wealthy man is always able.
- III. A poor man is always able.
- IV. A poor man has the ability to earn wealth.

- A Only conclusion I follows
- B Only conclusion III follows
- C Only conclusion IV follows
- D Only conclusion II follows

Answer: A

Question 75

What is the probability of getting a sum 10, when a die is rolled twice?

- A 3
- B $\frac{1}{12}$
- C $\frac{1}{36}$
- D $\frac{5}{36}$

Answer: B

Question 76

In this question, two statements are given followed by two conclusions. Choose the conclusion(s) which best fit(s) logically.

Statements:

- 1) Some glasses are spoons.
- 2) All spoons are jugs.

Conclusions:

- I. All jugs are glasses.
- II. Some spoons are jugs.

- A Both conclusions I and II follow
- B Only conclusion II follows
- C Only conclusion I follows
- D Neither conclusion I nor II follows

Answer: B

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Question 77

Which word will best complete the relationship given below?

Bacteria : Decomposition :: Yeast : ?

- A Injection
- B Eruption
- C Fermentation
- D Conservation

Answer: C

Question 78

Elon Musk is the founder of?

- A Orbital Sciences Corporation
- B Space X
- C Virgin Galactic
- D Boeing

Answer: B

Question 79

Find the least perfect cube divisible by 2, 3, 4 and 6.

- A 1728
- B 360
- C 512
- D 216

Answer: D

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Question 80

Find the ODD one out from the given options.

- A FPJ
- B LZN
- C KZM
- D HWO

Answer: C

Question 81

What is the full form of FERA ?

- A Foreign Export Revaluation Act
- B Funds Exchange Resources Act
- C Finance and Export Regulation Association
- D Foreign Exchange Regulation Act

Answer: D

Question 82

Which hormone promotes RBC production in the bone marrow?

- A Cholecystokinin
- B Serotonin
- C Somatosta
- D Erythropoietin

Answer: D

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Question 83

If the image formed by a spherical mirror is virtual, then the magnification value is?

- A Infinity
- B Zero
- C Positive
- D Negative

Answer: C

Question 84

The book ,“No Spin”, is an autobiography of?

- A Shane Warne
- B Anil Kumble

C Muttiah Muralitharan

D Bishan Singh Bedi To

Answer: A

Question 85

Find the missing number in the following series.

256, 128, 64, 32, (...), 8

A 10

B 14

C 16

D 12

Answer: C

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Question 86

Night blindness is caused by deficiency of?

A Vitamin B

B Vitamin C

C Vitamin A

D Vitamin D

Answer: C

Question 87

On which of the following days does the festival of Easter fall?

A Friday

B Saturday

C Thursday

D Sunday

Answer: D

Question 88

Which of the following fossil fuels has butane as its main constituent?

A Fuel oil

B LPG

C Coal

D Natural gas

Answer: B

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Question 89

Vignesh puts a watch on a table in such a way that it reads 9:15 a.m. Hour hand points to the south direction. Which direction does the minute hand face?

- A West
- B East
- C North
- D South

Answer: C

Question 90

With which of the following has IIT-Kharagpur partnered for advanced research in 5G and artificial intelligence ?

- A Wipro
- B TCS
- C Amazon
- D Microsoft

Answer: A

Question 91

What is the Sun and the celestial bodies revolving around it called as?

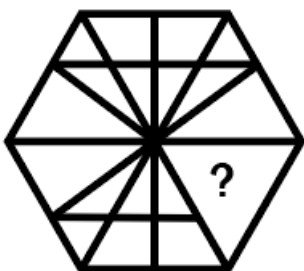
- A Galaxy
- B Milky way
- C Constellation
- D Solar system

Answer: D

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Question 92

Choose from the alternatives the figure that best completes the pattern given below.



A



B



C



D



Answer: C

Question 93

The element, tellurium is a?

- A Metal
- B Both metal and metalloid
- C Non-metal
- D Metalloid

Answer: D

Question 94

Which of the following is an example of endoparasite?

- A Body lice
- B Ticks
- C Head lice
- D Tape worm

Answer: D

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Question 95

Which of the following nerves is responsible for the sense of taste?

- A Olfactory nerve
- B Optic nerve
- C Glossopharyngeal nerve
- D Trochlear nerve

Answer: C

Question 96

Calcium hydroxide, reacts with carbon dioxide to produce?

- A Both salt and water
- B Water
- C Metal
- D Salt

Answer: A

Question 97

AIDS virus destroys the body's?

- A Circulatory system
- B Immune system
- C Red blood corpuscles
- D Liver

Answer: B

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Question 98

In which Constitutional Amendment Act were the seats of Lok Sabha increased from 525 to 545?

- A 31st Constitutional Amendment Act, 1973
- B 24th Constitutional Amendment Act, 1971
- C 25th Constitutional Amendment Act, 19
- D 21st Constitutional Amendment Act, 1967

Answer: A

Question 99

Find the product of first 10 whole numbers.

- A 100
- B 0

C 55

D 101

Answer: B

Question 100

If CAT + DOG = 50, then BAT + HEN = ?

A 40

B 50

C 25

D 30

Answer: B

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