



RRB JE 31st May 2019 Shift-2

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Instructions

For the following questions answer them individually

Question 1

Which of the following is the largest port in India?

- A Kochi
- B Mumbai
- C Paradip
- D Marmagao

Answer: B

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Question 2

In which of the following forms of treatment there is no medicine ?

- A Allopathy
- B Ayurveda
- C Placebo
- D Homeopathy

Answer: C

Question 3

What is the chemical generally used for controlling algae?

- A Bleaching powder
- B Alum
- C Lime
- D Copper sulphate

Answer: D

Question 4

An article when sold at a gain of 5% yields Rs.15 more than when sold at a loss of 5%. Find its cost price.

- A Rs.200
- B Rs.150
- C Rs.250
- D Rs.300

Answer: B

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Question 5

In Mendeleev's periodic table, gaps were left for the elements to be discovered later. Which of the following elements found a place in the periodic table later?

- A Germanium
- B Chlorine
- C Oxygen
- D Silicon

Answer: A

Question 6

A train crosses a pole in 20 seconds, and it crosses a cyclist coming in opposite direction at 5 km/h in 18 seconds. What is the speed of the train ?

- A 65 km/h
- B 45 km/h
- C 40 km/h
- D 62 km/h

Answer: B

Question 7

Which of the following Indian states has the largest forest coverage in terms of area ?

- A Odisha
- B Madhya Pradesh
- C Arunachal Pradesh
- D Karnataka

Answer: B

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Question 8

'World Environment Day 2018' was hosted by-

- A India
- B China
- C Bhutan
- D Sri Lanka

Answer: A

Question 9

If $\sqrt{(x-1) + (y+2)} = 7$, then find the values of x and y.

- A 12, 16
- B 8, 5
- C 15, 12
- D 50, 47

Answer: B

Question 10

Phenolphthalein becomes pink in-

- A Water
- B Salt Solutions
- C Acids
- D Alkalis

Answer: D

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Question 11

In one hour, a boat goes 11 km along the stream or 5 km against the stream. Find the speed of the boat in still water.

- A 5 km/h
- B 6 km/h
- C 8 km/h
- D 3 km/h

Answer: C

Question 12

Which of the following substances is found in human blood ?

- A Carbon
- B Oxygen
- C Haemoglobin
- D Hydrogen

Answer: C

Question 13

From the points 'x' m and 'y' m away from the foot of a tree on either side of it the angles of elevation of the tree-top are α, β respectively. If $\alpha + \beta = 90^\circ$, then find the height of the tree.

- A $x \cos \alpha + y \cos \beta$
- B \sqrt{xy}
- C $\frac{(x+y)^2}{2}$
- D $(x - y)^2$

Answer: B

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Question 14

Two vehicles start from places P and Q towards Q and P respectively at the same time. After crossing each other, they complete their journey in $7\frac{1}{2}$ hours and $18\frac{1}{7}$ hours respectively. If the second vehicle moves at a speed of 70 km/h, then find the speed of the first vehicle.

- A 54 km/h
- B 48.6 km/h
- C 72 km/h
- D 60 km/h

Answer: D

Question 15

A balanced chemical equation is in accordance with-

- A Law of multiple proportion
- B Law of gaseous volumes
- C Law of conservation of mass
- D Avogadro's law

Answer: C

Question 16

On which organ of the human body is angioplasty performed ?

- A Kidney
- B Heart
- C Stomach
- D Lungs

Answer: B

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Question 17

In Rutherford experiment, alpha particles were made to fall on a thin-

- A Silver plate
- B Aluminium foil
- C Gold foil
- D Silver foil

Answer: C

Question 18

What is the distance between two consecutive compressions or two consecutive rarefactions called?

- A Wavelength
- B Frequency
- C Wave velocity
- D Amplitude

Answer: A

Question 19

In a certain code, 'ABC DEF' is written as 'ZYX WVU'. How would 'FAIL' be written in that code?

- A URZO
- B UZWO
- C UZRO
- D UZOR

Answer: C

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Question 20

The Simple Interest for first 2 years is 6%, next 2 years is 7% and for any number of years exceeding 4 years is 8%. Find the total interest on a principal 'P' at the end of 7 years.

- A P
- B 2P
- C $3P/2$
- D $P/2$

Answer: D

Question 21

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

Statement:

The best evidence of India's glorious past is the growing popularity of Ayurvedic medicines in the West.

Conclusions:

- I. Ayurvedic medicines are not popular in India.
- II. Allopathic medicines are more popular in India.

- A Either conclusion I or II follows
- B Neither conclusion I nor II follows
- C Only conclusion I follows
- D Only conclusion II follows

Answer: B

Question 22

How many chromosomes are there in a cell of the human body?

- A 45
- B 46
- C 44
- D 43

Answer: B

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Question 23

To obtain a virtual enlarged erect image on the same side of a convex lens after refraction, where should the object be placed?

- A At infinity
- B Between focus F_1 and optic centre O
- C Between F_1 and $2F_1$
- D At $2F_1$

Answer: B

Question 24

The first letter of a chemical symbol is always written in-

- A Capital letter
- B Small letter
- C Bold
- D Italics

Answer: A

Question 25

What is the purpose of recently launched 'e-Sahaj' portal?

- A E-filing of Income Tax returns
- B Easy approval to service units
- C Easy approval to manufacturing units
- D Security clearance to businesses

Answer: D

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Question 26

Find the HCF of two consecutive integers.

- A Product of the integers
- B 1
- C 0
- D Sum of the Integers

Answer: B

Question 27

Complete the Series.

9, 34, 57, 77, 93, (...)

- A 98
- B 92
- C 104
- D 87

Answer: C

Question 28

With which sport is Dhanraj Pillai associated?

- A Cricket
- B Polo
- C Hockey
- D Football

Answer: C

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Question 29

Evaluate: 0.623

- A $\frac{617}{990}$
- B $\frac{623}{999}$
- C $\frac{23}{6990}$
- D $\frac{23}{6999}$

Answer: A

Question 30

One-fourth of the goods is sold at a loss of 20%. If there has to be an overall profit of 10%, at what gain percent should the remaining stock be sold, if the cost price of the entire goods is Rs.1600?

- A 18%
- B 25%
- C 20%
- D 15%

Answer: C

Question 31

A certain sum of money amounts to Rs.2420 in two years and Rs.2662 in three years at some rate of Compound Interest, compounded annually. Find the sum and the rate of interest per annum.

- A Rs.1000 and 12%
- B Rs.2500 and 5%
- C Rs.2250 and 15%
- D Rs.2000 and 10%

Answer: D

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Question 32

Zoology is the study of-

- A Animals
- B Viruses
- C Energy
- D Fruits

Answer: A

Question 33

Which vitamin promotes the absorbing of calcium in the body?

- A B6
- B D
- C B
- D A

Answer: B

Question 34

P is 35 m north west to Q, and R is 35 m north east to Q. What is the direction of R from P?

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

Answer: C

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Question 35

Which of these will have the least area ?

- (1) A regular hexagon of side 1 unit.
- (2) A circle of radius 1 unit.
- (3) A square of side $24\sqrt{12}$ units.

- A A square of side $24\sqrt{12}$ units.
- B Cannot be determined
- C A regular hexagon of side 1 unit.
- D A circle of radius 1 unit.

Answer: C

Question 36

Which of the following is NOT an allotrope of carbon?

- A Fullerene
- B Carborundum
- C Diamond
- D Graphite

Answer: B

Question 37

The missile is an Indian third generation "fire-and-forget" anti-tank guided missile.

- A Shaurya
- B Prithvi
- C Nag
- D Barak 8

Answer: C

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Question 38

Which number will best complete the relationship given below?

62 : 30 :: 84 : ?

- A 57
- B 50
- C 41
- D 53

Answer: C

Question 39

A clock is found to be slow by 5 minutes at 8 AM on Sunday. It started gaining time and was found to be 5 minutes fast at 8 PM on Monday. When was it correct?

- A 8 AM, Monday
- B 2 AM, Monday
- C 6 AM, Monday
- D 8 PM, Monday

Answer: B

Question 40

Simplify: $0.000088 \div 0.11$

- A 0.0008
- B 0.08
- C 0.00008
- D 0.008

Answer: A

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Question 41

Who among the following is directly responsible to the Parliament for all matters concerning the Defence Services of India ?

- A Prime Minister
- B Cabinet Committee on Political Affairs
- C Defence Minister
- D President

Answer: C

Question 42

Complete the series.

18, 9, 9, 13.5, 27, (...)

- A 69.1
- B 65.2
- C 71.2
- D 67.5

Answer: D

Question 43

Raj and Roy are standing at point B. They start walking in opposite directions. Raj walked 3 km and Roy walked 4 km. Then, Raj turned right and walked 4 km and Roy turned left and walked 3 km. How far is each from the starting point?

- A 4.5 km, 5 km
- B 8 km, 6 km
- C 5 km, 5 km
- D 6 km, 4 km

Answer: C

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Question 44

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

Five friends Abi, Chithra, Rekha, Priya and Divya are sitting on a bench facing north. Abi is sitting next to Chithra. Priya is sitting next to Rekha. Priya is not sitting with Divya. Divya is on the left end of the bench. Rekha is on the second position from the right. Abi sits to the right of Chithra. Abi and Rekha are sitting together.

What is the position of Chithra ?

- A Extreme left
- B Second from the right

C Second from the left

D Extreme right

Answer: C

Question 45

Which of the following countries will host the 2020 men's T20 World Cup ?

A Australia

B South Africa

C England

D India

Answer: A

Question 46

What is the chemical formula of caustic potash ?

A NH_4OH

B KOH

C NaOH

D $Ca(OH)_2$

Answer: B

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Question 47

The chief ore of copper is-

A Dolomite

B Bauxite

C Chalcopyrite

D Siderite

Answer: C

Question 48

What is the relation between the speed of sound through sea water v , the time interval between transmission and reception of ultrasound signal t and the total distance travelled by the ultrasound $2d$, in a SONAR ?

A $2d = v / t$

B $2d = v + t$

C $2d = v - t$

D $2d = v \times t$

Answer: D

Question 49

Simplify: $7 \div [(11 - 5) \div (5 - 1) \div (4 + 6 \div 20)]$

A 136/140

B 117/17

C 140/129

D 136/17

Answer: C

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Question 50

Ratio of principal to the amount got after a certain time at a certain rate of Simple Interest is 4 : 5. After three more years, the ratio becomes 5 : 7. What is the rate of interest?

A 4%

B 5%

C 8%

D 4.5%

Answer: B

Question 51

Complete the series.

AC, PD, PF, LJ, (...)

A GA

B ER

C SP

D AV

Answer: B

Question 52

What are called as prunes?

A Dried strawberries

B Dried apples

C Dried plums

D Dried apricots

Answer: C

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Question 53

Which of the following games were previously called the 'British Empire Games'?

- A Pan American Games
- B Commonwealth Games
- C Asian Games
- D Olympic Games

Answer: B

Question 54

Husk from wheat grains is separated from heavier seeds of grain by the process of-

- A Winnowing
- B Sublimation
- C Coagulation
- D Filtration

Answer: A

Question 55

In the following question, which one of the four interchanges in signs and numbers would make the given equation correct ?

$$15 + 4 - 2 \times 7 = 27$$

- A \times and $-$; 4 and 15
- B $-$ and $+$; 2 and 15
- C $+$ and $-$; 2 and 4
- D \times and $+$; 7 and 4

Answer: A

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Question 56

If 20 men can build a wall 56 m long in 6 days, then what length of wall can be built by 35 men in 3 days ?

- A 36 m
- B 52 m
- C 60 m
- D 49 m

Answer: D

Question 57

A number when divided by 15 leaves the remainder 12. Another number when divided by 5 leaves the remainder 2. What is the remainder when their sum is divided by 5 ?

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

Answer: D

Question 58

A small cone is cut off at the top by a plane parallel to the base from a cone of height 30 cm. If the volume of the small cone is $\frac{1}{27}$ of the given cone, find at what height above the base is the section made?

- A 10 cm
- B 14 cm
- C 20 cm
- D 8 cm

Answer: C

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Question 59

Which of the following represents the functional group 'alcohols'?

- A CHO
- B OH
- C CO
- D COOH

Answer: B

Question 60

A dog is running towards its owner who is standing at the east direction. From which direction did the dog start ?

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

Answer: A

Question 61

If the number 150 is increased by 30%, then what is the increased value ?

- A 45
- B 180
- C 145
- D 195

Answer: D

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Question 62

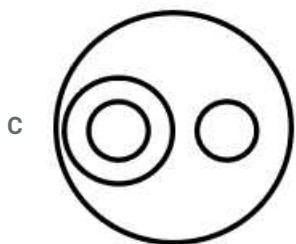
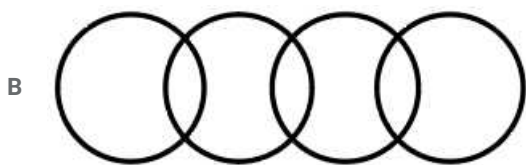
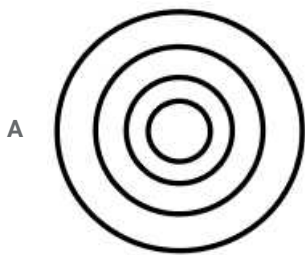
Find the least number to be added to the least four digit number so that the sum is divisible by 3, 4, 5 and 6.

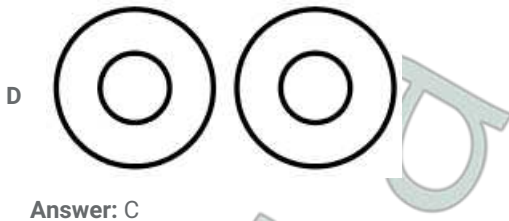
- A 33
- B 40
- C 20
- D 10

Answer: C

Question 63

Choose the figure that best represents the relationship among the classes given below.
Educated, Uneducated, Doctors, People





Question 64

'Akshaya' is a project aims to improve public delivery of services by bringing the benefits of e- Governance and utility services in-

- A Madhya Pradesh
- B Andhra Pradesh
- C Kerala
- D Karnataka

Answer: C

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Question 65

Which star in the sky does not seem to move at all ?

- A Ploe star
- B Corner star of Ursa Major
- C Sirius
- D Middle star of middle three stars of Orion

Answer: A

Question 66

Which of the following dance forms is NOT of Indian origin?

- A Samba
- B Bhangra
- C Odissi
- D Chhau

Answer: A

Question 67

Leela is 24 years older than herson. If the ratio of their ages is 23 : 11, then how old is Leela?

- A 46 years
- B 50 years
- C 69 years

D 34 years

Answer: A

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Question 68

Find the ODD one out from the given options.

A 25

B 78

C 30

D 75

Answer: B

Question 69

What is the SI unit of amplitude?

A Hertz

B Metre

C Second

D Kilogram

Answer: B

Question 70

The resistance of a conductor is inversely proportional to its-

A Area of cross section

B Length

C Temperature

D All of the options

Answer: A

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Question 71

Simplify : $(28 \times 9 + 54 \times 3 + 12 \times 11) + (14^2 - (961 + 17))$

A 7

B 5

C 8

D 3

Answer: D

Question 72

Buoyant force's depends on the density and volume of the fluid.

- A Energy
- B Direction
- C Magnitude
- D Power

Answer: C

Question 73

Choose the pair which shows the same relationship as in the pair given below.
2 - 4 - 6 : 10 - 12 - 14

- A 18 - 20 - 22 : 26 - 28 - 30
- B 13 - 14 - 15 : 18 - 19 - 20
- C 31 - 33 - 35 : 37 - 39 - 41
- D 3 - 4 - 5 : 6 - 7 - 8

Answer: A

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Question 74

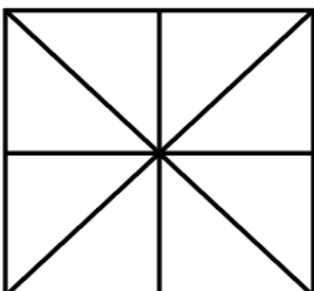
If $\sin x = \frac{m}{\sqrt{1+m^2}}$ then find 'tan x'

- A $\sqrt{1+m^2}$
- B $\frac{m^2-1}{m^2+1}$
- C m
- D $\frac{m^2}{1+m^2}$

Answer: C

Question 75

How many squares are there in the given figure ?



- A 5
- B 16
- C 9
- D 10

Answer: A

Question 76

Complete the series.

UY, OP, II, ED,(...)

- A GG
- B EE
- C AA
- D SS

Answer: C

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Question 77

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

During a party, a game is being played. For the game, 9 people from A to I (mix of boys and girls) have to stand in a vertical row. Boys are wearing red t-shirts and girls are wearing pink t-shirts. The row starts at left and with a pink t-shirt. Boys and girls stand alternately in the row. Each position in the row can be occupied by one person only.

- i) A stands seven places before B.
- ii) Third pink t-shirt is C.
- iii) Second boy after C is D.
- iv) Fourth place in the row is occupied by E.
- v) F stands ahead of A.
- vi) G stands between C and A.
- vii) I is a girl.

Which of the following is a pair of boys ?

- A E and H
- B F and A
- C E and C
- D D and B

Answer: A

Question 78

If $(20 + 8 \times 0.5)/(20 - x) = 12$, then find the value of 'x'.

- A 14
- B 16

C 18

D 20

Answer: C

Question 79

The process of killing the pathogenic bacteria of water borne diseases to make it safe for hospital use is known as-

A Sterilization

B Debacterialisation

C Zeoliting

D Aeration

Answer: A

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Question 80

Complete the series.

12, 17, 27, 57, (...)

A 168

B 179

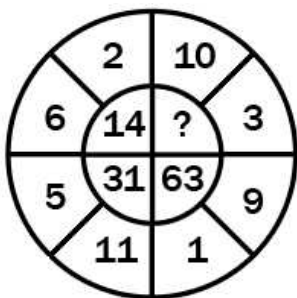
C 162

D 177

Answer: D

Question 81

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



A 51

B 21

C 46

D 39

Answer: C

Question 82

What causes high tides and low tides in the sea ?

- A Gravitational pull of the Earth
- B Gravitational pull of the Sun
- C Gravitational pull of the Moon
- D Gravitational pull of the Mars

Answer: C

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Question 83

If the word 'EXAMINATION' is coded as 89123416354, which word stands for 456354 ?

- A STATION
- B NATION
- C NOTION
- D RATION

Answer: C

Question 84

Solve for $x = | -2x + 2 | - 3 = -3$

- A $x = 1$
- B $x = -1$
- C $x = 2$
- D $x = 0$

Answer: A

Question 85

Who has taken charge as the first Chief Justice of Telangana High Court in January 2019 ?

- A Ramachandra Rao
- B Thottathil B. Radhakrishnan
- C Dr. Shameem Akther
- D R. Subhash Reddy

Answer: B

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Question 86

What is the radius of a cylinder whose volume is 3850cm^3 and height 25 cm ?

Latek

- A 7 cm
- B 14 cm
- C 3.5 cm
- D 10.5 cm

Answer: A

Question 87

P takes 50% more time than Q. If they work together, the work will be done in 18 days. In how many days will Q alone complete the work ?

- A 24 days
- B 30 days
- C 22 days
- D 25 days

Answer: B

Question 88

Complete the series.

32, 16, 48, 24, 72, (...)

- A 39
- B 28
- C 31
- D 36

Answer: D

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Question 89

What is the force required to overcome friction at the instant an object starts moving from rest ?

- A Sliding friction
- B Rolling friction
- C Static friction
- D Contact friction

Answer: C

Question 90

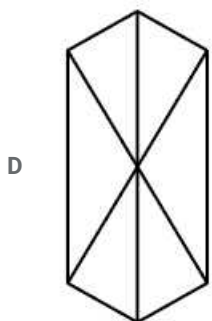
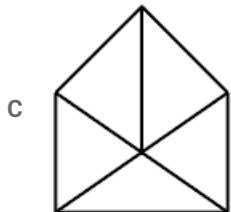
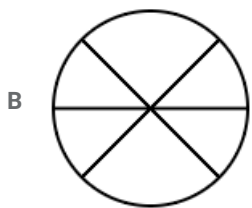
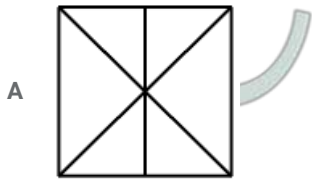
The is divided into four chambers.

- A Kidney
- B Heart
- C Lung
- D Stomach

Answer: B

Question 91

Find the ODD one out from the given options.



Answer: C

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Question 92

If a, b, c and d are in proportion, then find the mean proportional between $(a^2 + c^2)$ and $(b^2 + d^2)$.

- A $ab + cd$

B $ab - cd$

C $ad + bc$

D $ad - bc$

Answer: A

Question 93

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



Answer: C

Question 94

In which of these Olympic Games did India NOT win a gold medal in Hockey?

A Berlin, 1936

B Tokyo, 1964

C Rome, 1960

D Moscow, 1980

Answer: C

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Question 95

Who was the Governor of Jharkhand when the President rule was imposed in the year 2013?

- A M.O. Hasan Farook Maricar
- B Syed Ahmed
- C Kateekal Sankaranarayanan
- D Draupadi Murmu

Answer: B

Question 96

If 'nitco sco tingo' stands for 'softer than flower', 'tingo rho mst' stands for 'sweeter flower fragrance' and 'mst sco tmp' stands for 'sweeter than smile', what would 'fragrance' stand for ?

- A tmp
- B sco
- C rho
- D mst

Answer: C

Question 97

How will the light rays passing from a glass prism into air bend?

- A As the normal
- B Almost at 90 degrees with normal
- C Towards the normal
- D Away from the normal

Answer: D

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Question 98

Find the ODD one out from the given options.

- A Radish
- B Tomato
- C Carrot
- D Potato

Answer: B

Question 99

Which of the following is the work of Kalidasa?

- A Both Kiratarjuniya and Kumarasambhava
- B Malti Madhav
- C Kiratarjuniya
- D Kumarasambhava

Answer: D

Question 100

If A and B are supplementary, then find the value of $\cos A \cos B - \sin A \sin B$.

- A 2
- B -1
- C 0
- D 1

Answer: B

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