



RRB Group-D 6th Dec 2018-shift -1

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Instructions

For the following questions answer them individually

Question 1

6 years ago, a mother's age was 6 times her daughter's age. Three years hence the daughter would be one-third her mother's age. The current age (in years) of the mother is:

- A 45
- B 39
- C 36
- D 42

Answer: D

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Question 2

A product reaches a buyer from the farmer through 3 middlemen with the intermediate profits of 10%, 20% and 30%, respectively. Finally, the seller keeps a profit of 15%. If the farmer has sold the product at ₹ X, then how much more percent did the buyer pay for it?

- A 100.97%
- B 93.35%
- C 97.34%
- D 86.56%

Answer: C

Question 3

Elements in the Modern Periodic Table are arranged in periods.

- A 6
- B 8
- C 5
- D 7

Answer: D

Question 4

Plants that have lost their capacity to produce seeds reproduce by the method of:

- A Fission
- B Vegetative propagation
- C Multiple fission

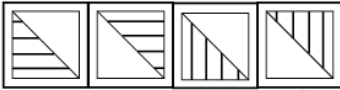
D Budding

Answer: B

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Question 5

Choose the option that closely resembles the mirror image of the given figure.



A a

B d

C c

D b

Answer: D

Question 6

What are the organisms that eat other organisms called?

A Holotrophic organisms

B Parasitic organisms

C Chemotrophic organisms

D Saprotrophic organisms

Answer: A

Question 7

Muscle contains special proteins called

A lipoproteins

B contractile proteins

C glycol-proteins

D nucleoproteins

Answer: B

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Question 8

Heating of ores in the absence of oxygen is called:

- A Extraction
- B Calcination
- C Roasting
- D Corrosion

Answer: B

Question 9

Who inaugurated the first edition of Khelo India School Games (KISG) that was held from 31st January to 8th February 2018 at Indira Gandhi Indoor Stadium?

- A The Chief Minister of Delhi
- B The Prime Minister of India
- C The Sports Minister
- D The Home Minister

Answer: B

Question 10

The resistors of values $3\ \Omega$, $6\ \Omega$ and $15\ \Omega$ are connected in parallel. What will be equivalent resistance in the circuit?

- A 0.8
- B 1.4
- C 2.1
- D 1.7

Answer: D

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Question 11

The total quantity of motion contained in the same body is called

- A pressure
- B force
- C momentum
- D inertia

Answer: C

Question 12

Read the given statement(s) and conclusions carefully and select which of the conclusions logically follow (s) from the statement(s).

Statement:

All vitamins are proteins. All proteins are fruits.

Conclusions:

1. Some vitamins are not fruits
2. Some fruits are vitamins

- A Either (1) or (2) follow
- B Only (1) follows
- C Both (1) & (2) follow
- D Only (2) follows

Answer: D

Question 13

The momentum of an object is 50 kg ms^{-1} and its mass is 10 kg. What is the velocity of the object?

- A 5 ms^{-2}
- B 0.5 ms^{-2}
- C 0.5 ms^2
- D 5 ms^{-1}

Answer: D

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Question 14

The book 'My Music, My Life' is the autobiography of:

- A Anushka Shankar
- B Ravi Shankar
- C Zakir Hussein
- D Shankar Mahadevan

Answer: B

Question 15

Using the given information, answer the question that follows.

Six friends are sitting around a circular table.

1. Soham is sitting adjacent to Nachiket.
2. Tushar is sitting opposite Pranav.
3. Swapnil is sitting equidistant to Soham and Pranav.

Who is sitting opposite Aniket?

- A Nachiket
- B Soham

- C Pranav
- D Swapnil

Answer: B

Question 16

Which state of India is the leading producer of coarse cereals?

- A Karnataka
- B Kerala
- C Tamilnadu
- D West Bengal

Answer: A

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Question 17

A 173 m long train crosses a 727 m long bridge in 40.5 seconds. What is the speed of the train?

- A 70 km/h
- B 85 km/h
- C 80 km/h
- D 75 km/h

Answer: C

Question 18

..... is the leading coffee producer state in India.

- A Karnataka
- B Maharashtra
- C Telengana
- D Gujarat

Answer: A

Question 19

The potential energy (P.E.) of a body at a certain height is 200 J. The kinetic energy possessed by it when it just touches the surface of the earth is:

- A zero
- B = P.E.
- C <P.E.
- D >P.E.

Answer: B

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Question 20

The spinal cord originates from:

- A Cerebellum
- B Medulla
- C Pons
- D Cerebrum

Answer: B

Question 21

Read the given statement(s) and conclusions carefully and select which of the conclusions logically follow(s) from the statement(s).

Statement:

Increased use of medicines puts down the innate healing sense of the body.

Conclusions:

I. There is an innate healing sense in the body.

II. Nowadays, we depend more on external medicine and do not allow the body to repair itself on its own.

- A Neither conclusion follows.
- B Both the conclusions follow.
- C Only conclusion I follows.
- D Only conclusion II follows.

Answer: C

Question 22

The Swadesh Darshan Scheme is an initiative of which Ministry?

- A Finance
- B HRD
- C Tourism
- D Defence

Answer: C

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Question 23

$\frac{3}{5}$ th of Sarah's amount is equal to $\frac{6}{7}$ th of Priya's amount. Between them the duo has ₹ 3,570. How much money does Priya have?

- A ₹ 1,540
- B ₹ 2,100

C ₹ 1,470

D ₹ 1,400

Answer: C

Question 24

..... meristem is present at the base of the leaves or internodes on twigs.

A Calary

B Intercalary

C Apical

D Lateral

Answer: B

Question 25

In a certain code, STAPLE is written as RSZOKD. How is DIGEST written in that code?

A CHRDFS

B CHDFRS

C CHFDRS

D CHDRFS

Answer: C

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Question 26

The ratio of the five angles of a pentagon is 2 : 3 : 4 : 4 : 5. What would be the measure of the greatest angle?

A 120°

B 125°

C 140°

D 150°

Answer: D

Question 27

Three out of the four options given below are related in a particular way. Choose the option that is different or odd from the others.

A Cat

B Neigh

C Frog

D Goat

Answer: B

Question 28

The most commonly used indicator in laboratories is:

- A Litmus
- B Phenolphthalein
- C Universal Indicator
- D Methyl Orange

Answer: A

Explanation:

Litmus paper or litmus solution are the most commonly used indicators in laboratory

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Question 29

If $3x^2 + ax + 2$ is perfectly divisible by $x - 3$, then the value of 'a' is:

- A -13
- B -12
- C -3
- D -9

Answer: A

Question 30

What will be the mass of mercuric oxide if 92.6 g of mercury reacts with 7.4 g of oxygen?

- A 100 g
- B 85.2 g
- C 92.6 g
- D 7.4 g

Answer: A

Question 31

The LCM of 88 and 220 is:

- A 220
- B 1100
- C 440
- D 880

Answer: C

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Question 32

Age of two persons are in the ratio of 5 : 7. 18 years ago, their ages were in the ratio of 8 : 13. Their current ages are:

- A 45 & 63 years
- B 50 & 70 years
- C 40 & 80 years
- D 45 & 75 years

Answer: B

Question 33

Insert mathematical symbols in the place of '?' to get the result of the given equation as 87:

$$((150?2)?2)?10 = 87$$

- A +, ×, ×
- B +, ÷, ÷
- C -, ×, ÷
- D ÷, +, +

Answer: D

Question 34

How many players were named for Sultan Azlan Shah Cup and Commonwealth Games by the Hockey India?

- A 11
- B 25
- C 33
- D 22

Answer: C

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Question 35

P told Q, "Though I am the son of your father, you are NOT my brother". How is Q related to P?

- A Sister
- B Father
- C Daughter
- D Son

Answer: A

Question 36

If PHONE is written as RJQPG, then WATER can be written as

- A YCVGT
- B YVCTG
- C YVCGT
- D YCVTG

Answer: A

Question 37

The time period of a vibrating body is 0.05 s. The frequency of waves it emits will be:

- A 200 Hz
- B 20 Hz
- C 2 Hz
- D 5 Hz

Answer: B

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Question 38

$$132 \times 16 \div 2^3 + 4 = ?$$

- A 792
- B 176
- C 264
- D 268

Answer: D

Question 39

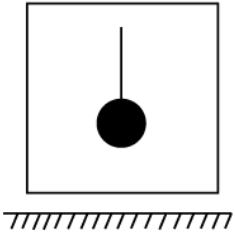
Let n be the number of different 5-digit numbers divisible by 4, with the digits 4, 5, 6, 7, 8 and 9, no digit being repeated in the numbers. What is the value of n?

- A 8
- B 24
- C 168
- D 192

Answer: C

Question 40

Choose the mirror image of the following figure.



- A
- B
- C
- D

Answer: C

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Question 41

Read the following table carefully and answer the question that is given below:

Classification of 100 students based on the marks obtained by them in English and Maths In an Examination.

Mark out of 50	40 and above	30 and above	20 and above	10 and above	0 and above
Subject					
English	23	26	70	90	100
Maths	15	36	75	95	100
(Aggregate) Average	19	31	80	93	100

What is the difference between the number of students passed with 20 as cut-off marks in English and those passed with 20 as cut-off marks in aggregate?

- A 12
- B 5
- C 6
- D 10

Answer: D

Question 42

What type of a bank is NABARD?

- A Commercial Bank focused on Trade & Industry
- B Private Bank focused on Technological Development
- C Cooperative Bank focused on Social and Urban Development
- D Development Bank focused on Agricultural and Rural Development

Answer: D

Question 43

The Brihadisvara Temple was designed by the famous architect

- A Sama Varma
- B Ravi Varma
- C Rama Varma
- D Govinda

Answer: A

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Question 44

A body of mass 100 gm is rotating on a circular path of radius r with constant velocity. The work done in one complete revolution will be:

- A zero
- B $(100/r)$ J
- C $100 r$ J
- D $(r/100)$ J

Answer: A

Question 45

Read the statements and decide whether the conclusion is true or false.

Statements:

1. Object A is bigger than Q.
2. Object C is bigger than S.

Conclusion:

The object S is smaller than Q.

- A Cannot say
- B Probably false
- C True
- D False

Answer: A

Question 46

Who among the following has released the 'India 2018' book recently?

- A Sushma Swaraj
- B Manohar Parrikar
- C Narendra Modi
- D Smriti Irani

Answer: D

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Question 47

If the direction of applied force and direction, in which an object moves, are perpendicular to each other, then:

- A positive work is done
- B no power is released
- C no energy is released
- D no work is done

Answer: D

Question 48

An object moving with a velocity of 50 m s^{-1} comes to rest after 20 s. What is its initial velocity?

- A 0 m s^{-1}
- B 50 m s^{-1}
- C 0 m s^{-1}
- D 10 m s^{-1}

Answer: B

Question 49

Pillow is related to Rest in the same way as Shoes are related to?

- A Run
- B Fly
- C Swim
- D Wear

Answer: A



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Question 50

Read the given statement(s) and conclusions carefully and select which of the conclusions logically follow(s) from the statement(s).

Statements:

Due to the rapid increase in the population in developing countries, there is a huge depletion of resources.

Conclusions:

I. The population of developing countries will not continue to increase in future.

II. It will be very difficult for the governments of developing countries to provide its people with a decent quality of life.

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

Answer: A

Question 51

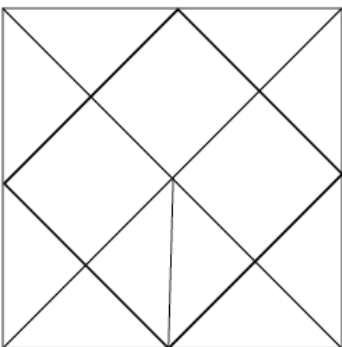
$$384 \div 2^5 \times 3 + 8 = ?$$

- A 12
- B 132
- C 3
- D 44

Answer: D

Question 52

Find the number of triangles in the given figure:



- A 20
- B 28
- C 36
- D 24

Answer: D

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Question 53

Which is not a correct match of the below?

- A Aldehyde:--- OH
- B Amides:--- $CONH_2$
- C Amines: -- NH_2
- D Carboxylic Acid:--- $COOH$

Answer: A

Question 54

A sum of money was divided between A and B in the ratio 17:25. If B gave ₹ 5 to A, the ratio would change to 3 : 4. What is the sum of money in question?

- A ₹ 196
- B ₹ 203
- C ₹ 217
- D ₹ 210

Answer: D

Question 55

What will be the next term in the below series?
C3A1, G7E5,

- A I8K10
- B I9K11
- C K11I9
- D K10I8

Answer: C

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Question 56

If North-East becomes North, then what would West become?

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

Answer: B

Question 57

With which of the following sport Sultan Azlan Shah cup is associated?

- A Kabaddi
- B Foot ball
- C Tennis
- D Hockey

Answer: D

Question 58

Each question given below consists of a statement, followed by two arguments numbered I and II. You have to decide which of the arguments is a 'strong' argument.

Statement:

Should speed driving be imposed heavy penalties?

Arguments:

- I. Yes, speed driving, is one of the major causes of road deaths as per statistics.
- II. No, speed driving helps a person to reach his destination soon.

- A Both I and II are strong.
- B Neither I nor II is strong
- C Only argument I is strong
- D Only argument II is strong

Answer: C

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Question 59

Who is the Director of the movie "Bahubali-2", which was released in the year 2017?

- A Rajkumar Hirani
- B S.S.Rajarnouli
- C K.Vishwanath
- D Sanjay Leela Bhansali

Answer: B

Question 60

A statement is followed by two arguments. Decide which of the arguments is/are strong with respect to the statement.

Statement:

Government should implement price control on medicines and medical devices.

Arguments:

- I. Yes, price control in healthcare have the noble intension of enhancing patient welfare for poor and middle class people
- II. No, health care organisations will end up inclining loses or making less margin.

- A Only II is strong

- B Only I is strong
- C Neither I nor II is strong
- D Either I or II is strong

Answer: B

Question 61

Which of the numbers given below is rational?

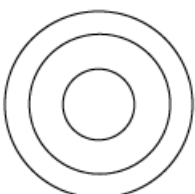
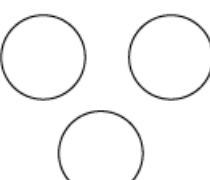
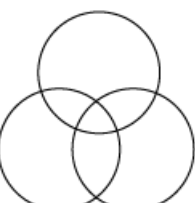

- A $\sqrt[3]{49}$
- B $\sqrt[3]{81}$
- C $\sqrt[3]{64}$
- D $\sqrt[3]{36}$

Answer: C

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Question 62

Choose the Venn diagram that best represents the words:
India, Telangana, Hyderabad.

- A 
- B 
- C 
- D 

Answer: A

Question 63

Which of the following quadrilaterals has four lines of symmetry?

- A Rhombus
- B Rectangle
- C Parallelogram
- D Square

Answer: D

Question 64

In a computer game a builder can build a wall in 10 hours while a destroyer can demolish such a wall completely in 14 hours. Both the builder and the destroyer were initially set to work together on level ground. But after 7 hours the destroyer was taken out. What was the total time (in hours) taken to build the wall?

- A 35
- B 17
- C 24
- D 15

Answer: D

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Question 65

Atomic number of an element is:

- A Number of electrons
- B Total number of protons and neutrons
- C Total number of electrons and neutrons
- D Number of neutrons

Answer: B

Question 66

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

Wall : Brick :: Fabric : ?

- A Brick
- B Milk
- C Yarn
- D Wood

Answer: C

Question 67

Who among the following was elected as the Madhya Pradesh Governor in January 2018?

- A Marnata Banerjee
- B Mayawati
- C Anandiben Patel
- D Aruna Jayanti

Answer: C

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Question 68

A solid spherical metal ball of diameter 72 cm is melted and recast into small solid cones of diameter 6 cm and height 6 cm. Find the number of cones that can be formed using this melted metal.

- A 3,456 cones
- B 3,600 cones
- C 3,568 cones
- D 3,200 cones

Answer: A

Question 69

Leela goes for a long drive towards the South. After some time she takes a 90° left turn and then takes a 45° left turn to enter a by-lane. Which direction is Leela heading towards?

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

Answer: C

Question 70

A rectangle with length 14 cm and width 3 cm is rotated along its length by 150°. What is the volume of the shape thus generated?
(Use $\pi = \frac{22}{7}$)

- A 198 cm^3
- B 220 cm^3
- C 165 cm^3
- D 192.5 cm^3

Answer: C

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Question 71

Four words have been given of which three are alike in some way and one is different. Choose the odd one out.

- A BEFFILY
- B ABHORRED
- C ACCENT
- D EFFORT

Answer: E

Question 72

The image formed by controlled rays of reflection that we get by extending the rays backwards:

- A Convex
- B Real
- C Plain
- D Virtual

Answer: D

Question 73

The average marks obtained by a group of 25 students was 29. One student left the group as a result of which the average of the remaining students rose to 29.5. Afterwards, another student came in as a result of which the average marks of the group dropped to 28.8. What is the average of the combined marks obtained by the student who left and the one who joined?

- A 14
- B 14.5
- C 15
- D 13.5

Answer: B

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Question 74

Magnitude of displacement from initial position to final position is a

- A curved line
- B straight line
- C semi circle
- D circle

Answer: E

Question 75

IPC Section 377, recently in the news deals about which of the following?

- A Dowry
- B Divorce
- C Same sex marriages
- D Domestic violence

Answer: C

Question 76

Inlet Pipe A can fill a cistern in 35 hours while outlet Pipe B can drain the filled cistern in 40 hours. The two pipes are opened together when the cistern is empty, but the outlet pipe is closed when the cistern is three-fifths full. How many hours did it take in all to fill the cistern?

- A 185
- B 182
- C 184
- D 180

Answer: B

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Question 77

Consider the following question and decide which of the statements is sufficient to answer the question.

Question:

Find the value of n, if

Statements:

1) $AB = A$

2) $A = \begin{bmatrix} n & 9 \\ 2 & 1 \end{bmatrix}, B = \begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}$

- A Only 1 is sufficient
- B Only 2 is sufficient
- C Either 1 or 2 is sufficient
- D Both 1 and 2 are NOT sufficient

Answer: D

Question 78

A and B can do a piece of work together in 9 days while A alone can do it in 15 days. They start working together but B leaves 3 days before the completion of the work. For how many days did A and B work together?

- A 7.2
- B 7.5

C 8.1

D 8

Answer: A

Question 79

35 : 98 :: x : 140. What is the value of x?

A 60

B 50

C 55

D 65

Answer: B

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Question 80

The following table shows the pass percentage of results of four schools in the past four years.

School Name	2012-13	2013-14	2014-15	2015-16
XYZ	78	69	81	92
ABC	61	72	84	96
PQR	81	92	85	97
TUV	92	69	72	95

In which academic year did all the schools have pass percentage as more than 80?

A 2012-13

B 2014-15

C 2015-16

D 2013-14

Answer: C

Question 81

Rabindranath Tagore received Nobel prize for Literature in 1913 for

A Gora

B Gitanjali

C The Home and The World

D Grain of Sand

Answer: B

Question 82

Bahadur Shah, the last Mughal Emperor, was exiled to for fear of another rebellion.

- A Mysore
- B Carnatic
- C Awadh
- D Burma

Answer: D

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Question 83

Who is the author of the book One Indian Girl? Amit Chauduri

- A Amit Chauduri
- B Chetan Bhagat
- C Vikram Chandra
- D Vikram Seth

Answer: B

Question 84

Two friends enter a restaurant that has an entrance facing East. They were asked to take right and occupy a two-seater table. Which direction did they turn after entering the restaurant to occupy the seats?

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

Answer: D

Question 85

The LCM of 76 and 57 is:

- A 114
- B 171
- C 152
- D 228

Answer: D

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Question 86

If North becomes North-East then what will North-East become?

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

Answer: A

Question 87

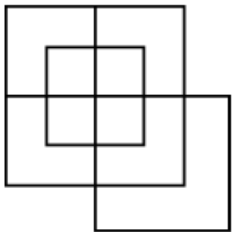
Which of the below devices does not use intemedted circuits?

- A Mobile phones
- B Computer
- C Camera
- D Television

Answer: C

Question 88

Count the number of squares in the following figure.



- A 9
- B 15
- C 11
- D 8

Answer: C

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Question 89

What is 'amu' in the context of atoms and molecules?

- A Avegado Mass Unit
- B Atomic Unified Mass Unit

- C Atomic Mass Unit
- D Atomic Molecule Unit

Answer: C

Question 90

Bleaching powder is produced by the action of chlorine on dry slaked lime. Which of the following is the appropriate equation for this?

- A $Ca(OH)_2 + 2Cl = CaOCl_2 + H_2O$
- B $Ca(OH)_2 + Cl = 2CaOCl_2 + H_2O$
- C $Ca(OH)_2 + Cl_2 = CaOCl_2 + H_2O$
- D $Ca(OH)_2 + Cl_2 = CaOCl_2 + 2H_2O$

Answer: C

Question 91

Who is the present Comptroller and Auditor General of India?

- A Rajiv Mehrishi
- B Amitabh Kant
- C Shashikanth Sharma
- D Mukul Rohatgi

Answer: A

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Question 92

Who among the following was the Prime Minister of India when Mandal Commission was constituted?

- A Manmohan Singh
- B Atal Bihari Vajpayee
- C VP Singh
- D Morarji Desai

Answer: D

Question 93

Find the remainder when $1 + a + a^2 + a^3 + \dots + a^{2018}$ is divided by $a - 1$?

- A 2018
- B 2017
- C 2019
- D 0

Answer: C

Question 94

If $8^x = 2^x$, then find x .

- A 1
- B 2
- C $\frac{1}{2}$
- D $\frac{2}{3}$

Answer: C

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Question 95

Which of the following is NOT a Fundamental Right provided in the Indian Constitution?

- A Right to Property
- B Right to Education
- C Right to Freedom
- D Right to Equality

Answer: A

Question 96

We all know from our observation that water can exist in three states of matter.

Statements:

- A. Solid, as ice
- B. Liquid, as petrol and
- C. Gas as O_2

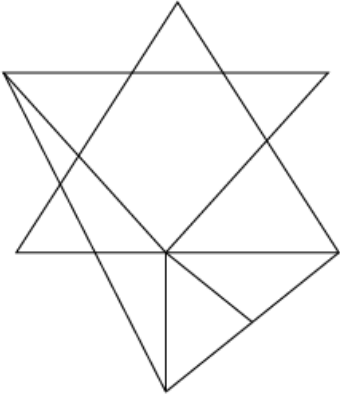
Which of the following statements is/are true?

- A only A is true. B and C are false
- B A and B are true, C is false
- C All are false
- D All are true

Answer: A

Question 97

How many triangles are present in the below figure?



A 16

B 11

C 14

D 15

Answer: A

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Question 98

$\frac{5}{7}$ of a number is $\frac{2}{3}$. What is the number?

A $\frac{1}{2}$

B $\frac{15}{7}$

C $\frac{7}{15}$

D $\frac{14}{15}$

Answer: D

Question 99

That is the next term in this series?

22, 18, 40, 48, 58,

A 90

B 70

C 78

D 68

Answer: C

Question 100

There are parallel ranges of the Himalayas.

A three

B two

C five

D four

Answer: A

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