



RRB Group-D 17th Dec 2018-shift -1

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Instructions

For the following questions answer them individually

Question 1

A car starting from rest, accelerates in a straight road at a constant rate of 3.0 ms^{-2} for 8 s. Find the distance travelled by the car during this time.

- A 75 m
- B 86 m
- C 192 m
- D 100 m

Answer: C

Explanation:

We know that acceleration is speed per unit time

therefore speed is 24 m/s

we also know that speed is distance upon time

so distance is $speed \times time = 24 \times 8$

hence distance is 192

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Question 2

Who is the lead actress in the movie "Mary Kom"?

- A Priyanka Chopra
- B Manisha Koirala
- C Kareena Kapoor
- D Deepika Padukone

Answer: A

Question 3

$66 \times 32 \div 2^3 + 8 = \dots\dots\dots?$

- A 1060
- B 792
- C 132
- D 272

Answer: D

Question 4

Joule/coulomb is the same as:

- A 1 volt
- B 1 kWh
- C 1 watt
- D 1 ohm

Answer: A

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Question 5

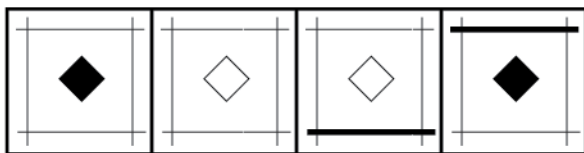
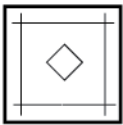
Tarapur Atomic Power Station is located in Tarapur, in

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

Answer: A

Question 6

Identify the mirror image of the following figure.



a b c d

- A c
- B b
- C d
- D a

Answer: B

Question 7

The LCM of 145 and 87 is:

- A 580
- B 725

C 290

D 435

Answer: D

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Question 8

4W X Z 8 Q P O J 6 G T M V E U H 5 3 B

Find the missing term using the above sequence

W 8, P 6,, H B

A *Q 6*

B *T E*

C *Z O*

D *U B*

Answer: B

Question 9

Consider the following statement and decide which of the assumptions is implicit from the statement.

Statement:

Rajesh's condition will improve after operation.

Assumptions:

I. Rajesh can be operated upon in this condition.

II. Rajesh cannot be operated upon in this condition.

A Only assumption II is implicit

B Neither assumption I nor II is implicit

C Either assumption I or II is implicit

D Only assumption I is implicit

Answer: D

Question 10

Starting from point O facing West a man walks 4 kilometre reach point A, turns right walks 4 kilometre reach point B, turn right walks 4 kilometre reach point C, turns right walks 3 kilometre reach point D, turns left walks 4 kilometre reach point E, turns right walks 5 kilometre reach point F. At point C, the man is facing direction.

A East

B South

C North

D West

Answer: A

Question 11

A parking area has two gates, one on the eastern side which is the entry gate and another in the western corner which is the Exit gate. If a car enters the parking area through the entrance gate following a straight path and makes a 90° turn to the right and gets place to park which direction does the car's bonnet face?

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

Answer: A

Question 12

Choose one of the following options which is equal to:

$$\frac{1+\cos\theta}{\sin\theta}$$

- A $\frac{\sin\theta}{1-\cos\theta}$
- B $\frac{1+\sin^2\theta}{\sin\theta\cos\theta}$
- C $\frac{1+2\cos\theta}{\sin\theta\cos\theta}$
- D $\frac{1-2\sin^2\theta}{\cos\theta}$

Answer: A

Question 13

Electronegativity from left to right in a row in the periodic table and electro positivity from left to right in a row in the periodic table

- A decreases, increases
- B decreases, decreases
- C increases, increases
- D increases, decreases

Answer: D

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Question 14

Inclusive of an 18% peak-time surcharge a taxi fare came to ₹ 531. What would the payable amount have been without the surcharge?

- A ₹ 440
- B ₹ 425
- C ₹ 450
- D ₹ 475

Answer: C

Question 15

Find the next term in the following series.

A1E5, F6J10,

A K11O15

B M11O15

C L11O14

D M12O14

Answer: A

Question 16

Ritesh drove at a speed of 60 km/h for 8 hours. For how many hours should he now drive at a speed of 80 km/h for the overall average speed to become 72 km/h?

A 8

B 12

C 10

D 15

Answer: B

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Question 17

A sum of money, invested at 7.5% simple interest p.a. became ₹ 689 on maturity after 4 years. What was the original sum invested?

A ₹ 560

B ₹ 520

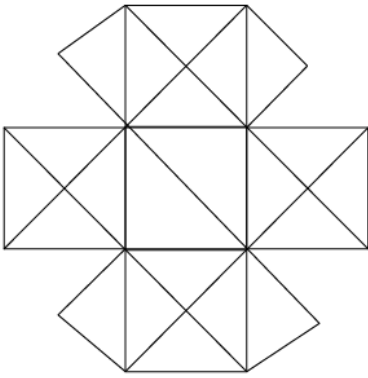
C ₹ 530

D ₹ 540

Answer: C

Question 18

How many lines are used to create the below figure?



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

Answer: C

Question 19

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

Question:

Find the value of m , slope of a line.

Statements:

- 1) $y = mx + 2$
- 2) Line passes through (2, 1)

- A Only statement 2 is sufficient
- B Either statement 1 or 2 is sufficient
- C Only statement 1 is sufficient
- D Both statements 1 and 2 are sufficient

Answer: D

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Question 20

..... cells are embedded in a hard matrix that is composed of calcium and phosphorus.

- A Ligament
- B Blood
- C Bone
- D Cartilage

Answer: C

Question 21

The characteristic of sound by which we can distinguish between two sounds of the same loudness and pitch is known as:

- A quality
- B intensity
- C pitch
- D loudness

Answer: A

Question 22

Which of the following is NOT an example of non-uniform motion?

- A A man running a 800 m race
- B The rotation of the blades of a ceiling fan
- C A car moving on a crowded street
- D A person jogging in a park

Answer: A

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Question 23

Gauri Lankesh, who was shot dead in 2017 hails from which state?

- A Tamil Nadu
- B Andhra Pradesh
- C Karnataka
- D Maharashtra

Answer: C

Question 24

Which of the following is NOT a part of a neuron?

- A Neurilemma
- B Nissl granules
- C Sacrolemma
- D Axon

Answer: C

Question 25

What is the full form of UIDAI?

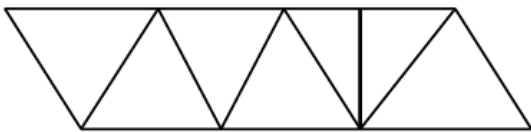
- A United Indian Data Analytics Internal
- B Universal Indian Data Analysis Internal
- C Unique Indian Data Archive
- D Unique Identification Authority of India

Answer: D

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Question 26

How many triangles are there in this figure?



- A 8
- B 14
- C 6
- D 10

Answer: A

Question 27

The thrust exerted by a body on a surface = ?

- A the volume of the body
- B the density of the body
- C the weight of the body
- D the mass of the body

Answer: C

Question 28

Metals can displace each other according to their:

- A Conductivity
- B Resistivity
- C Testability
- D Reactivity

Answer: D

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Question 29

What is the least natural number which when divided by 8, 12, 15 or 16 leaves a remainder of 7?

- A 247
- B 548
- C 257
- D 614

Answer: A

Question 30

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

Statements:

Some jaguars are cheetahs, Some cheetahs are leopards, Some leopards are panthers

Conclusions:

1. Some panthers are cheetahs
2. No panther is a cheetah

- A Only conclusion 1 follows
- B Only conclusion 2 follows
- C Both 1 and 2 follows
- D Either 1 or 2 follows

Answer: D

Question 31

A man bought bananas at the rate of ₹ 8 for 10 pieces and sold them at the rate of ₹ 10 for 8 pieces. How many bananas should he sell to earn a profit of ₹ 90?

- A 300
- B 200
- C 100
- D 400

Answer: B

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Question 32

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 Pathology
- B Nephrology

C Shells

D Psychology

Answer: C

Question 33

In a triangle ABC, if $AB = BC$ and the measure of angle C is 75° , then the measure of angle B is:

A 30°

B 60°

C 75°

D 52.5°

Answer: A

Question 34

Fertilisation occurs in the

A Vagina

B Uterus

C Fallopian tube

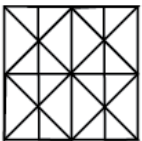
D Cervix

Answer: C

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Question 35

Find the minimum number of horizontal and vertical straight lines required to make the given figure.



A 14

B 8

C 16

D 17

Answer: B

Question 36

Observe the relation between the first pair of words and identify the pair that has the same relationship from the below options
Stool : Bench

- A Carpenter : chair
- B Chair : Table
- C Wood : steel
- D Foot-rule : yardstick

Answer: D

Question 37

The Great Indian Desert is also known as the desert.

- A Kalahari
- B Gobi
- C Sahara
- D Thar

Answer: D

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Question 38

In a flask of volume 'V' litres, 0.2 moles of O_2 , 0.4 moles of N_2 , 0.1 moles of NH_3 and 0.3 moles of He gases are present at $27^\circ C$. If the total pressure exerted by these non-reacting gases is 1 atm, the partial pressure exerted by N_2 gas is:

- A 0.3 atm
- B 0.1 atm
- C 0.2 atm
- D 0.4 atm

Answer: D

Question 39

Pipe A is an inlet pipe that can fill an empty cistern in 8.7 hours. Pipe B can drain a filled cistern in 5.8 hours. When the cistern was filled the two pipes are opened one at a time for an hour each, starting with Pipe B. How long will it take for the cistern to be empty?

- A 32 hours 16 minutes
- B 30 hours 48 minutes
- C 32 hours
- D 31 hours

Answer: B

Question 40

A student lifts a heavy book from the floor of a room to put it in the bookshelf at a height 2 m For this process, the student takes 5 s. The work done by the student will depend upon:

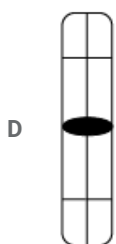
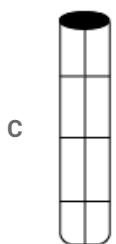
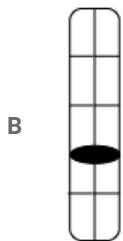
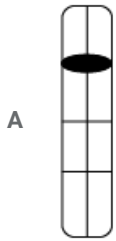
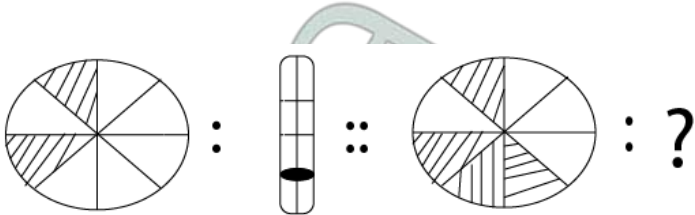
- A the height of the book shelf and the time taken
- B the mass of the book, the height of the book shelf and the time taken
- C the mass of the book and the time taken
- D the weight of the book and the height of the bookshelf

Answer: D

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Question 41

Find the figure that can replace the question mark in the following analogy.

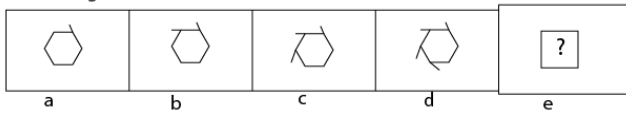


Answer: D

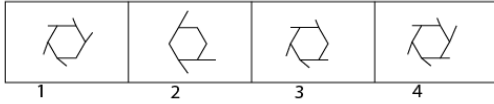
Question 42

Select the answer figure that will replace the question mark in the question figure series.

Question figures



Answer figures



A 4

B 1

C 2

D 3

Answer: D

Question 43

The terms 'Birdie' and 'Eagle' are used in which of the following sport/game?

A Basket ball

B Shooting

C Golf

D Boxing

Answer: C

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Question 44

The child will be a male, if the zygote has an combination.

A XO

B XXY

C XY

D XX

Answer: C

Explanation:

we have two chromosomal combination for gender where

XX is for female child and

XY is for male child.

Question 45

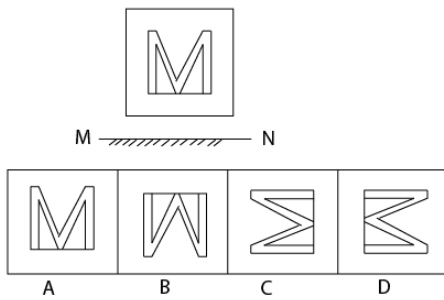
An object of mass 10 kg is moving with a uniform velocity of 4 ms^{-1} . Find the kinetic energy possessed by the object.

- A 80 W
- B 80 Pa
- C 80 N
- D 80 J

Answer: D

Question 46

Choose the mirror image for the following figure considering MN to be the Mirror:



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

Answer: B

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Question 47

A mother, after 4 years, will be twice the age of her daughter. The sum of their present ages is 46. What is the daughter's age today?

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

Answer: B

Question 48

Electric current is equals to?

- A $I = \pi/t$

B $I = \Omega/t$

C $I = Q/t$

D $I = W/t$

Answer: C

Question 49

A Memorandum of Understanding (MoU) was signed between the Indian Army and which bank on the former's Defence Salary Package?

A Canara Bank

B State Bank of India

C Reserve Bank of India

D Indian Bank

Answer: B

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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:

Mr. X humiliated Mr. Y in the office that too in the presence of all other colleagues.

Conclusions:

1. Mr. X did not like Mr. Y

2. Mr. X was not popular in the office

A Both 1 and 2 follows

B Only conclusion 2 follows

C Neither 1 nor 2 follows

D Only conclusion 1 follows

Answer: C

Question 51

Prakash is the brother of Nilesh. How is Nilesh related to Prakash's only sister's father's wife?

A Brother

B Uncle

C Son

D Cousin

Answer: C

Question 52

Select the appropriate combination of symbols that when sequentially placed in place of the question marks (?) in the given equation will correctly complete the equation.

$$((20?100)?4)?10 = -10$$

A $-, \times, \div$

B $-, \div, +$

C $+, \div, \div$

D $+, \times, \times$

Answer: B

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Question 53

$$3.0005 - 1.748 = ?$$

A 1.2525

B 1.257

C 2.8257

D 1.9257

Answer: A

Question 54

Ankur Mittal was awarded the Arjuna Award (2018) for

A golf

B boxing

C shooting

D wrestling

Answer: C

Question 55

Select the option that is related to the third term in the same way as the second term is related to the first term.
Gentle : Harsh :: Ignore : ?

A Next

B Never

C Notice

D New

Answer: C

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Question 56

Amit and Pankaj together have ₹ 1,080.

If $\frac{15}{29}$ (Amount with Amit) = $\frac{3}{5}$ (Amount with Pankaj) . then what is the amount with Amit?

- A ₹ 580
- B ₹ 1,160
- C ₹ 500
- D ₹ 290

Answer: A

Question 57

Select the option that is related to the third term in the same way as the second term is related to the first term.
Meghalaya : Shillong :: Assam : ?

- A Dispur
- B Orissa
- C Bihar
- D Gangtok

Answer: A

Question 58

Consider the following statements to be true even if they seem to be at variance from commonly known facts and decide which of the conclusions logically follows from the statements.

Statement:

- All pets are beautiful.
- All beautiful is loving.

Conclusions:

1. All pets are loving.
2. Some beautiful are pets.

- A No conclusion follows
- B Only conclusion 2 follows
- C All the conclusions follow
- D Only conclusion 1 follows

Answer: C

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Question 59

Bauxite mines are abundantly found in which state?

- A Bihar

- B Rajasthan
- C Andhra Pradesh
- D Odisha

Answer: D

Question 60

Which of the numbers below will have an irrational square root?

- A 7569
- B 6084
- C 3368
- D 1444

Answer: C

Question 61

An element has an atomic number of 15. With which of the following elements will it show similar chemical properties?

- A $Be(4)$
- B $N(7)$
- C $Ne(10)$
- D $O(8)$

Answer: B

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Question 62

As of February, 2018 the Chairperson for Children's Film Society of India is

- A Mukesh Rishi
- B Mukesh Khanna
- C Mukesh Bhatt
- D Rishi Kapoor

Answer: B

Question 63

The hypotenuse of a right-angled triangle is $14\sqrt{2}$ cm long. What is the area of the circumcircle of the said triangle? [Use $\pi = \frac{22}{7}$]

- A 264 cm^2
- B 308 cm^2
- C 286 cm^2

D 312 cm^2

Answer: B

Question 64

A pipe can fill a tank in 12 hours. By mistake another pipe that empties the tank is left open and the tank is filled in 16 hours. If the tank is full, how much time will the second pipe take to empty it?

A 48 minutes

B 48 days

C 2.01 days

D 48 hours

Answer: D

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Question 65

As of February 2018, who was the Chief Justice of India?

A HL Dattu

B Dipak Misra

C JS Khehar

D TS Thakur

Answer: B

Question 66

Who has been sworn as the Chief Minister of Tripura in 2018?

A Sitaram Yechury

B Biplab Kumar Deb

C Ram Madhav

D Manik Sarkar

Answer: B

Question 67

Which of the following solutions will be more Acidic?

A $pH = 2$

B $pH = 6$

C $pH = 1$

D $pH = 0$

Answer: D

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Question 68

"The Blue Umbrella", which is a famous Children's movie, is directed by:

- A Vishal Bhardwaj
- B Shreya Sharma
- C Deepak Dobrival
- D Pankaj Kapur

Answer: A

Question 69

You are given a question and two statements. Identify which of the statements is/are sufficient to answer the question.

Question:

Meenu has 5 boards of 3 different shapes – square, rectangular and circular. How many circular boards does she have?

Statements:

1. There are 3 square boards.
2. The number of rectangular boards is one-third of the number of square boards.

- A Statements 1 and 2 together are sufficient.
- B Statement 1 alone is sufficient.
- C Statement 2 alone is sufficient.
- D Statements 1 and 2 together are not sufficient.

Answer: A

Question 70

Read the given statement(s) and conclusions carefully. Assuming that the information in the statements is true, even if they appear to be in variance with commonly known facts, select which of the conclusions logically follow(s) from the statement(s) beyond reasonable doubt.

Statements:

All caps are cups. All bowls are cups

Conclusions:

- (I) Some bowls are caps
- (II) No bowl is cap

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

Answer: B

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Question 71

What is the molecular formula of Butyne?

- A C_3H_4
- B C_4H_6
- C C_2H_2
- D C_4H_{10}

Answer: B

Question 72

The Cabinet Committee on Economic Affairs (CCEA) approved North East Road Network Connectivity Project (NERNCP) Phase I for development of 403 km of national highways in:

- A Meghalaya and Mizoram
- B Meghalaya and Nagaland
- C Meghalaya and Manipur
- D Meghalaya and Assam

Answer: A

Question 73

If an object is at infinity, what will be the position of an image formed due to convex lens?

- A At infinity
- B At focal point
- C Beyond F_2
- D On C_2

Answer: B

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Question 74

Which is the smallest natural number having exactly 10 factors?

- A 36
- B 24
- C 16
- D 48

Answer: D

Question 75

The sex of an offspring is determined by which of the following?

- A DNA of the female gamete
- B DNA of the male gamete
- C Neither the DNA of the male nor the female gamete
- D DNA of the male and the female gamete

Answer: B

Question 76

Which of the following is a rational number?

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

Answer: A

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Question 77

The between two bodies are always equal and opposite.

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

Answer: B

Question 78

Match the following with the correct response:

(1) Cobalt	(A) S
(2) Copper	(B) Co
(3) Sulphur	(C) Na
(4) Sodium	(D) Cu

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

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

Answer: C

Question 79

Which of these is NOT a Veda?

A Atharva Veda

B Rig Veda

C Krishna Veda

D Yajur Veda

Answer: C

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Question 80

Find the next term in the series.

11PK16, 9RI18, 7TG20,

A 5WE22

B 5CV22

C 5VC22

D 5VE22

Answer: D

Explanation:

Process:

11-2= 9 and so on

One letter gap in between P & R and so on in increasing order

One letter gap in between K & I and so on in decreasing order

18-16=2 and so on.

So, next term in the series= 5VE22.

Therefore, **Option D** is correct.

Question 81

Shiromani Akali Dal is a regional political party of which of the following states?

A Telangana

B Punjab

C Gujarat

D Rajasthan

Answer: B

Question 82

Type-1 workers are 2.25 times as efficient as Type-2 workers. 30 Type-1 workers can do a piece of work in 6.4 days. How many days would it have taken 4 Type-1 and 15 Type-2 workers to do the same work?

- A 18
- B 19
- C 17
- D 20

Answer: A

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Question 83

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

Statement:

The good aspects of edible oils are retained only when extracted by traditional cold pressed methods.

Arguments:

- I. Yes, recent research says oil extracted by old method is good for health.
- II. No, the cold pressed oil is very costly and not affordable for common public

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

Answer: C

Question 84

A statement is given followed by two conclusions labelled I and II. Consider the given statement to be true even if it seems to be at variance with the commonly known facts and then decide which of the given conclusions Logically follow(s) from the given statement disregarding the commonly known facts.

Statement:

Due to the decision to explode eight nuclear weapons at its test site, the nation is facing international opposition.

Conclusions:

- I. The citizens of the nation supported the decision.
- II. Some powerful countries do not want other nations to become as powerful as they are.

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

Answer: C

Question 85

Who among the following has got the power to commute the death sentence in India?

- A Chief Justice

- B Prime Minister
- C Home Minister
- D President

Answer: D

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Question 86

What is the position of the Indian men's hockey team in the Commonwealth Games 2018?

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

Answer: C

Question 87

Pipe A takes 4 hours to fill a tank. Pipe B takes 6 hours to empty the same tank when full. If both the pipes are opened at the same time when the tank is empty, how many hours will it take for the tank to fill?

- A 10
- B 8
- C 12
- D 15

Answer: C

Question 88

Maitreyee was given some money to take care of her travel during a 10-day sales drive she had to undertake. However, she had to increase her stay by another 6 days, and as a result, her average daily travel allowance went down by ₹ 45. What was the amount that was sanctioned to her in the beginning?

- A ₹ 1,120
- B ₹ 1,200
- C ₹ 960
- D ₹ 1,040

Answer: B

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Question 89

It took 64 people 77 days to construct a house. What fraction of the work can be completed by 44 people in 96 days?

A $\frac{3}{4}$

B $\frac{4}{5}$

C $\frac{6}{7}$

D $\frac{2}{3}$

Answer: C

Question 90

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

Question:

Find the value of $p^2 - 4$,

Statements:

1) $\frac{p}{2} = \frac{5}{7}$

2) $p^2 - q^2 = 729$

A Only 1 is sufficient

B Either 1 or 2 is sufficient

C Neither 1 nor 2 is sufficient

D Only 2 is sufficient

Answer: A

Question 91

A bicyclist comes to a skidding stop in 10 m. During this process, the force on the bicycle due to the road is 200 N and is directly opposed to the motion. The work done by the cycle on the road is:

A -2000J

B 2000J

C 200J

D zero

Answer: D

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Question 92

Pather Panchali was written by

A Bibhutibhushan Bandopadhyay

B Munshi Premchand

C Rabindranath Tagore

D Pannalal Patel

Answer: A

Question 93

Who among the following was born in the year 1861?

- A Mahatma Gandhi
- B Rabindranath Tagore
- C Sri Aurobindo
- D Swami Vivekananda

Answer: B

Question 94

Choose the incorrect pair from the below.

- A pH of stomach acid- 1.0
- B pH of lemon juice- 2.0
- C pH of acid rain -5.0
- D pH of caustic soda- 5.0

Answer: D

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Question 95

A polygon with n sides will have how many corners?

- A n
- B 4
- C 5
- D 1

Answer: A

Question 96

Curved surface area of Cone P is seven times the curved surface area of Cone Q. Slant height of Cone Q is seven times the slant height of Cone P. What will be the ratio of the area of the base of Cone P to the area of the base of Cone Q?

- A 2401: 1
- B 343: 1
- C 49: 1
- D 7: 1

Answer: A

Question 97

Which of the numbers given below is **NOT** a perfect square?

A 26248

B 20164

C 39601

D 33856

Answer: A

Explanation:

$$\sqrt{26248} = 162.1$$

$$\sqrt{20164} = 142$$

$$\sqrt{39601} = 199$$

$$\sqrt{33056} = 184$$

Therefore, **Option A** is correct

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Question 98

What was the position of noble gases in the Mendeleev's periodic table?

A Noble gases, being very inert, were not necessarily put in the periodic table

B Noble gases were there in the seventh group

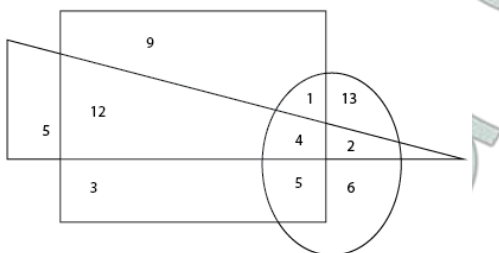
C Mendeleev divided all elements into 8 groups, so there was no place for noble gases

D Noble gases were not discovered by that time

Answer: D

Question 99

In the following Venn diagram, the rectangle represents the number of RPS supporters, the triangle represents the number of MI supporters and the circle represents the number of KKR supporters. How many of them support MI and KKR but not RPS?



A 4

B 2

C 12

D 1

Answer: B

Question 100

If $x^2 + kx + 7.5k = 0$ has no solution, then the value of k will satisfy:

- A $0 < k < 30$
- B $k < 0$
- C $k > -30$
- D $k < 30$

Answer: A

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