



RRB JE 27th May 2019 Shift-1

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Instructions

For the following questions answer them individually

Question 1

By whom was the modern periodic table given?

- A Bohr
- B Mendeleev
- C Einstein
- D Mosley

Answer: B

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Question 2

Fix the symbols +, -, ×, ÷ appropriately in the box to fit the equation given here.

$$100 \square 25 \square 5 \square 5 \square 21 = 0$$

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

Answer: D

Explanation:

$$100 \square 25 \square 5 \square 5 \square 21 = 0$$

$$100 \div 25 - 5 \times 5 + 21 = 0$$

$$4 - 5 \times 5 + 21 = 0$$

$$4 - 25 + 21 = 0$$

$$0 = 0$$

Question 3

Complete the series.

5, 30, 25, 125, 120, 480, (...)

- A 483
- B 528
- C 498
- D 475

Answer: D

Explanation:

5, 30, 25, 125, 120, 480, (...)

$$5 \times 6 = 30$$

$$30 - 25 = 5$$

$$25 \times 5 = 125$$

$$125 - 120 = 5$$

$$120 \times 4 = 480$$

so next

$$480 - 475 = 5$$

Question 4

Who has the power to proclaim the state of emergency in India?

- A Chief Justice of India
- B Vice-President
- C President
- D Prime Minister

Answer: C

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Question 5

Which of the following will best complete the relationship given below?

TEF : UGH :: KPQ : ?

- A LRS
- B LSR
- C NRS
- D RSL

Answer: A

Explanation:

TEF : UGH :: KPQ : ?

After T U comes

so

After K L will come

after EF GH comes

so

After PQ RS will come

LRS

Question 6

Which of the following is a waterborne disease?

- A Malaria
- B Cholera
- C Small pox
- D Influenza

Answer: B

Question 7

Reduce to lowest terms $\frac{368}{575}$.

- A $\frac{25}{29}$
- B $\frac{28}{29}$
- C $\frac{16}{25}$
- D $\frac{30}{25}$

Answer: C

Explanation:

$\frac{368}{575}$

both the number is factor of 23

$$\frac{23 \times 16}{23 \times 25}$$

$$\frac{16}{25}$$

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Question 8

Complete the series.

2, 3, 7, 34, 50, (...)

- A 184
- B 175
- C 193
- D 163

Answer: B

Explanation:

2, 3, 7, 34, 50, (...)

Addition of squares and cubes

$$2 + 1^3 = 3$$

$$3 + 2^2 = 7$$

$$7 + 3^3 = 34$$

$$34 + 4^2 = 50$$

so

$$50 + 5^3 = 175$$

Question 9

If $\sin \theta + \sin^2 \theta = 1$, then find $\cos^2 \theta + \cos^4 \theta$

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

Answer: A

Question 10

Which is the strongest bone in the human body?

- A Thigh bone
- B Spinal cord
- C Ankle
- D Shin bone

Answer: A

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Question 11

A heterogeneous mixture in which the solute particles do not dissolve but remain suspended throughout the bulk of the medium is known as-

- A Suspension
- B Unsaturated solution
- C Colloids
- D Saturated solution

Answer: A

Question 12

Simplify: $\frac{0.1 \times 0.1 + 0.2 \times 0.2}{0.3 \times 0.3 + 0.6 \times 0.6}$

- A $\frac{1}{3}$
- B $\frac{2}{9}$
- C $\frac{2}{3}$
- D $\frac{1}{9}$

Answer: D

Explanation:

$$0.1 \times 0.1 + 0.2 \times 0.2$$
$$0.3 \times 0.3 + 0.6 \times 0.6$$

apply bodmass rule

$$0.01 + 0.04$$
$$0.09 + 0.36$$

$$0.05$$
$$0.45$$

$$\frac{1}{9}$$

Question 13

At what rate percent will a sum of money double itself in 12 years?

A 8%

B $8\frac{1}{2}\%$

C $8\frac{1}{4}\%$

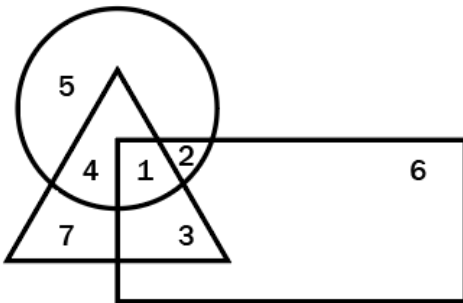
D $8\frac{1}{3}\%$

Answer: D

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Question 14

In the given figure, the circle represents editors, triangle represents directors, and rectangle represents singers. Which region represents the persons who are editors and singers but not directors ?



A 2

B 4

C 1

D 3

Answer: A

Explanation:

the circle represents editors, triangle represents directors, and rectangle represents singers.

the circle represents editors = 5

triangle represents directors = 7

rectangle represents singers = 6

region represents the persons who are editors and singers = 2 or 1

region represents the persons who are editors and singers but not directors = 2

Question 15

Due to which force does the moon move around the Earth in its near circular orbit?

- A Mechanical force
- B Centrifugal force
- C Friction force
- D Centripetal force

Answer: D

Question 16

Which is the main source of almost all energy on Earth?

- A Atmosphere
- B Sun
- C Moon
- D Water

Answer: B

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Question 17

The number of atoms or molecules or ions present in one mole of a substance is called-

- A Atomic number
- B Avogadro number
- C Mass number
- D Normality

Answer: B

Question 18

As we move down a group of the periodic table, the electron affinity-

- A Increases and then decreases
- B Decreases
- C Increases
- D Remains the same

Answer: B

Question 19

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

Statements:

$$C > U \leq S < T = O > D \geq Y, Z = O \leq P$$

Conclusions:

I. $Z > Y$

II. $C < O$

- A Either conclusion I or II is true
- B Only conclusion I is true
- C Only conclusion II is true
- D Both conclusions I and II are true

Answer: B

Explanation:

$$C > U \leq S < T = O > D \geq Y, Z = O \leq P$$

O is common in both the statement

here, in first statement

$$O > D \geq Y$$

$$= O > Y \dots(1)$$

In 2nd statement

$$Z = O \leq P$$

$$= Z = O \dots(2)$$

so, $Z > Y$ from (1) and (2).... True

Now for $C < O$

$$C > U \leq S < T = O > D \geq Y$$

$$C < O \dots \text{false}$$

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Question 20

How much work is done in moving 2 Coulombs of charge across two points having a potential difference of 12 V?

- A 12 Joule
- B 18 Joule
- C 24 Joule
- D 6 Joule

Answer: C

Question 21

P and Q can do a work in 12 days and 16 days respectively. P started the work alone. After how many days should Q join P, so that the work is finished in 9 days?

- A 3

- B 2
- C 5
- D 4

Answer: C

Explanation:

P = 12 days

Q = 16 days

total work = LCM(12,16) = 48

efficiency = $\frac{48}{12} = 4$

efficiency = $\frac{48}{16} = 3$

as we know that

efficiency multiplied by days = work

P works till the end and Q comes after some day

so

$$P_{time} \times P_{effi} + Q_{time} \times Q_{effi} = 48$$

$$9 \times 4 + Q \times 3 = 48$$

Q time = 4 days

Question 22

Which of these numbers is a multiple of 24?

- A 35718
- B 53784
- C 31256
- D 63810

Answer: B

Explanation:

Find two more numbers that multiply to make 24. In this case, $1 \times 24 = 2 \times 12 = 3 \times 8 = 4 \times 6 = 24$ This means the factors of 24 are 1, 2, 3, 4, 6, 8, 12 and 24

only 53784 which is divisible by all the factors of 24

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Question 23

In a certain code language, 256 means 'you are good', 637 means 'we are bad', 358 means 'good and bad'. Find the code for 'and'.

- A 3
- B 8
- C 5
- D 2

Answer: B

Explanation:

256 means 'you are good', 637 means 'we are bad', 358 means 'good and bad'.

you are good = 256 (1)

we are bad = 637(2)

'good and bad'. = 358 (3)

select the common words

in 1 and 3

good =5

in 2 and 3

bad =3

so from 3 ,we get

and = 8

Question 24

P and Q can complete a job in 12 days and 16 days respectively. They work together for 4 days. What portion of work is left for completion?

A $\frac{3}{4}$

B $\frac{7}{12}$

C $\frac{6}{7}$

D $\frac{5}{12}$

Answer: D

Question 25

During a chemical reaction, atomic number _____.

A Changes with temperature

B Remains the same

C Changes

D Changes with volume

Answer: B

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Question 26

Find the ODD fraction.

$\frac{18}{72}$, $\frac{24}{96}$, $\frac{51}{204}$, $\frac{108}{432}$, $\frac{18}{90}$

A $\frac{24}{96}$

B $\frac{51}{204}$

C $\frac{108}{432}$

D $\frac{18}{90}$

Answer: D

Explanation:

$$\frac{18}{72} = \frac{1}{4}$$

$$\frac{24}{96} = \frac{1}{4}$$

$$\frac{51}{204} = \frac{1}{4}$$

$$\frac{108}{432} = \frac{1}{4}$$

$$\frac{18}{90} = \frac{1}{5}$$

so odd $\frac{18}{90}$

Question 27

Arun went to a nearby city at a speed of 25 km/h and returned at 20 km/h. If the total time for the trip was 1 hour 48 minutes, what is the distance of his place from the city?

A 20 km

B 18 km

C 40 km

D 22 km

Answer: A

Explanation:

$$\text{Average speed} = \frac{2 \times 20 \times 25}{20 + 25} = \frac{100}{45} \text{ km/hr}$$

Time = 1 hr 48 min

$$= \frac{108}{60} = \frac{9}{5}$$

$$\text{Total Distance} = \frac{100}{45} \times \frac{9}{5} = 40 \text{ km}$$

$$\text{Therefore, distance between house and office} = \frac{40}{2} = 20 \text{ km}$$

Question 28

Three numbers in the ratio 3 : 4 : 5 have the LCM 2400. What is the HCF?

A 40

B 120

C 200

D 80

Answer: A

Explanation:

Let the numbers be 3x, 4x and 5x.

their L.C.M. = 60x.

So, 60x = 2400 or x = 40.

The numbers are (3 x 40), (4 x 40) and (5 x 40).

HCF

$$120 = 2 \times 2 \times 2 \times 3 \times 5$$

$$160 = 2 \times 2 \times 2 \times 2 \times 2 \times 5$$

$$200 = 2 \times 2 \times 2 \times 5 \times 5$$

H.C.F. = 40.

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Question 29

Asbestos is a mineral fibre that can pollute air or water and cause-

- A Mesothelioma, lung cancer and asbestosis
- B Asbestosis
- C Mesothelioma
- D Lung cancer

Answer: A

Question 30

What type of lines are represented by the equations $6x - 3y + 10 = 0$ and $2x - y + 9 = 0$?

- A Parallel
- B Cannot be determined
- C Intersecting
- D Coincident

Answer: A

Question 31

Find $\tan 75^\circ$, by splitting 75° as $(45^\circ + 30^\circ)$.

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

Answer: B

Explanation:

$$\tan(A + B) = \frac{\tan A + \tan B}{1 - \tan A \tan B}$$

$\tan 75^\circ$, by splitting 75° as $(45^\circ + 30^\circ)$.

$$\tan 45^\circ = 1$$

$$\tan 30^\circ = \tan \frac{1}{\sqrt{3}}$$

$$\tan(45 + 30) = \frac{\tan 45 + \tan 30}{1 - \tan 45 \times \tan 30}$$

$$\tan(A + B) = \frac{1 + \sqrt{3}}{1 - \sqrt{3}}$$

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Question 32

What is the theme of 'National Girl Child Day', 2019?

- A Bridging health and social care
- B Leave no one behind
- C Let's bring change to the world
- D Empowering girls for a brighter tomorrow

Answer: D

Question 33

6 men and 2 boys can do five times as much work as one man and one boy. Find the ratio of the working capacity of a man to that of a boy.

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

Answer: B

Explanation:

let one man 1 day work = M

and 1 boy 1 day work = B

so one man and one boy 1 day work = M + B

6 Men and 2 Boys work = 6M + 2B

$$6M + 2B = 5(M + B)$$

$$= M = 3B$$

$$\frac{M}{B} = \frac{3}{1}$$

$$\Rightarrow M : B :: 3 : 1$$

Question 34

Find the ODD one out from the given options.

- A 154
- B 198
- C 168
- D 176

Answer: C

Explanation:

Addition of digits should be even

$$154 = 10$$

$$198 = 18$$

$$168 = 15$$

$$176 = 14$$

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Question 35

Simplify: $4 + 44 + 444 + 4444 + 44444$

A 48384

B 49384

C 49380

D 49280

Answer: C

Explanation:

$$4 + 44 + 444 + 4444 + 44444$$

Assume above as

$$00004 + 00044 + 00444 + 04444 + 44444$$

then add it

$$49280$$

Question 36

Oxides of non-metals are _____ in nature.

A Amphoteric

B Basic

C Both acidic and basic

D Acidic

Answer: D

Question 37

Simplify: $\sqrt{64009} - \sqrt{53824}$

A 17

B 21

C 23

D $\sqrt{21}$

Answer: B

Explanation:

$$\sqrt{64009} - \sqrt{53824}$$

$$\sqrt{64009} = 253$$

$$\sqrt{53824} = 232$$

$$253 - 232 = 21$$

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Question 38

Which word will best complete the relationship given below?

Taj Mahal : India :: Petra : ?

- A Denmark
- B Colombia
- C Jordan
- D Italy

Answer: C

Explanation:

Taj Mahal : India :: Petra : ?

Taj Mahal located in India

similarly

Petra located in Jordan

Question 39

How does a lubricant reduces friction between moving parts of a machine?

- A Lubricant increases the material's irregularities
- B Lubricant makes the moving parts tight
- C Lubricant tears the parts
- D The lubricant forms a thin film of surface between the moving parts so that they don't rub against each other directly

Answer: D

Question 40

When was Sri Lanka's first satellite Ravana 1 launched into space from NASA's Flight Facility?

- A March 2019
- B April 2019
- C February 2019
- D May 2019

Answer: B

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Question 41

Simplify: $25 + 15 - 5 \times \frac{1}{2} \text{ of } 10 - [50 \div 10 - 5]$

- A 15
- B 10
- C 20
- D 25

Answer: A

Explanation:

$$25 + 15 - 5 \times \frac{1}{2} \text{ of } 10 - [50 \div 10 - 5]$$

Apply bodmass rule , before solve bracket

$$25 + 15 - 5 \times \frac{1}{2} \text{ of } 10 - [5 - 5]$$

$$25 + 15 - 5 \times \frac{1}{2} \text{ of } 10 - 0$$

$$25 + 15 - 5 \times 5$$

$$25 + 15 - 25$$

$$15$$

Question 42

Find the difference between the selling prices of two articles sold at 12.5% profit and 12.5% loss, if the cost price is Rs.400 each.

- A Rs.140
- B Rs.120
- C Rs.100
- D Rs.80

Answer: C

Explanation:

12.5% = profit%

Let us consider 400 as cost price

profit

$$\frac{12.5}{100} \times 400$$

$$= 50$$

Selling price will be ,

$$\text{Cost price} + \text{profit} = 400 + 50$$

$$S.p = 450$$

12.5% = loss%

Let us consider 400 as cost price

profit

$$\frac{12.5}{100} \times 400$$

= 50

Selling price will be ,

Cost price + loss = 100-50

S.p = 50

difference in their selling price = 150 - 50 = Rs 100

Question 43

Which of the following group of alphabets will best complete the relationship given below?

DFI : MOR :: LNQ : ?

A UWY

B UWZ

C UWX

D TUW

Answer: B

Explanation:

DFI : MOR :: LNQ : ?

DFI : MOR

the letters are in Alphabetical order

D E F GH I JKL M N O PQR

similarly

L M N OP Q RST U V W XY Z

UWZ

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Question 44

Which of the following is an olfactory indicator?

A Litmus paper

B Phenolphthalein

C Vanilla

D Red cabbage juice

Answer: C

Question 45

Convert into vulgar fraction: 0.2437

A $\frac{2413}{9999}$

B $\frac{2437}{9990}$

C 2413
9900

D 2437
9999

Answer: C

Question 46

Citrus fruits are considered a rich source of-

A Vitamin D

B Vitamin B

C Vitamin C

D Vitamin A

Answer: C

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Question 47

Find the ODD one out from the given options.

A GF

B DC

C EF

D CB

Answer: C

Explanation:

here the second letter comes first in Alphabetical series the first letter comes

GF, here F comes first then G

DC, here C comes first then D

EF here F not comes first

CB here B comes first then C

Question 48

Which of the following gases turns limewater milky?

A Carbon dioxide

B Hydrogen

C Oxygen

D Both oxygen and carbon dioxide

Answer: A

Question 49

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

Statements:

- 1) Some trucks are bikes.
- 2) Some bikes are scooters.

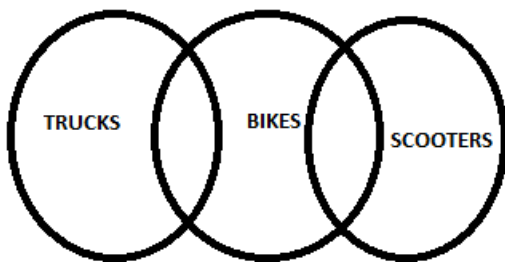
Conclusions:

- I. Some trucks are scooters.
- II. All bikes are scooters.

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

Answer: C

Explanation:



I. Some trucks are scooters.

There is no connection between trucks and scooters, so we can't say anything about it.

II. All bikes are scooters.

Some bikes are scooters, not all bikes.

so, Neither conclusion I nor II follows.

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Question 50

What is the relation between the frequency ν and the time period T of a sound wave?

A $\nu = \frac{1}{\sqrt{T}}$

B $v = \frac{1}{T^2}$

C $v = T$

D $v = \frac{1}{T}$

Answer: D

Question 51

If selling price of 'n' pens is the same as cost price of 10 pens and there is 100% gain, then find the value of 'n'.

A 5

B 6

C 8

D 10

Answer: A

Question 52

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

Eight friends—J, K, L, M, N, O, P and Q are sitting around a circle facing the center. J is second to the right of P who is third to the right of K. M is second to the left of O who sits between P and J. L is not a neighbour of K or N.

Which of the following groups of persons have the first person sitting between the other two?

A PJO

B OPM

C MPO

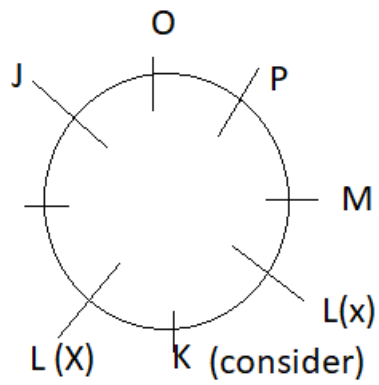
D OPJ

Answer: D

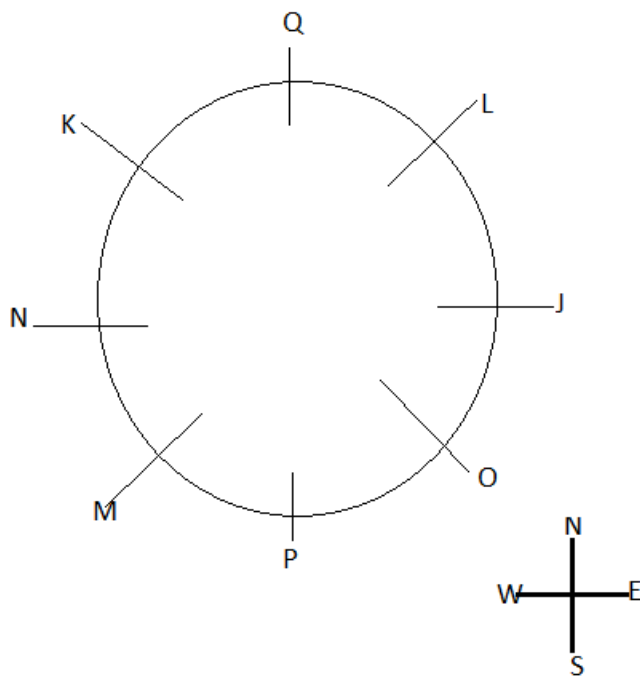
Explanation:

OPJ

giv3en



so only one place left for L



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Question 53

A policeman left his police post and proceeded south 4 km. Then he turned left proceeded 4 km to reach the point B. From B, he proceeded left to reach another place C which is 4 km away. In which direction has he to go to reach his police post?

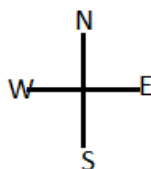
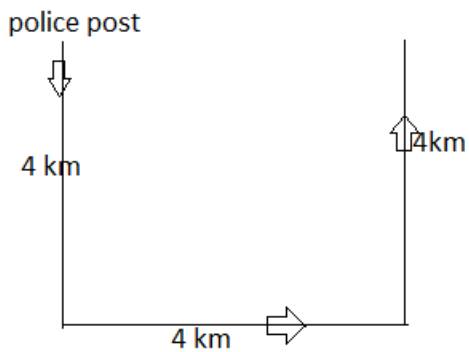
- A East
- B West

C South

D North

Answer: B

Explanation:



He has to move west to reach police post

Question 54

Daughter's age is one-fourth of her father's age. Five years hence, she will be one-third of his age. Further after five years, what will be the ratio of her age to that of her father?

A 2 : 5

B 5 : 2

C 3 : 4

D 3 : 5

Answer: A

Explanation:

Let D be the daughter's age and F be the father's age

ATQ

$$D = \frac{1}{4}F \dots\dots 1$$

after 5 years

$$D + 5 = \frac{1}{3}(F + 5) \dots\dots 2$$

put 1 in 2

$$\frac{1}{4}F + 5 = \frac{1}{3}(F + 5)$$

D = 10 years

F = 40 years

so 5 years hence ,

D = 15 years

F = 45 years

Again 5 years after

D = 20 years

F = 50 years

ratio

$$D : F = 20 : 50 = 2 : 5$$

Question 55

If 'LBAEHC' is coded as 'BLEACH', then which of the following is coded as 'NBOLZKMH'?

A BOLNHMKZ

B BONKZLHM

C BNOLKZMH

D BNLOKZHM

Answer: D

Explanation:

'LBAEHC' is coded as 'BLEACH'

first two letters are interchanged LB BL

middle two letters are interchanged AE EA

last two letters are interchanged HC CH

similarly

'NBOLZKMH'

first two letters are interchanged NB BN

Second and third letters are interchanged OL LO

Fourth and fifth letters are interchanged ZK KZ

last two letters are interchanged MH HM

BNLOKZHM

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Question 56

With which sport is Narain Karthikeyan associated?

A Tennis

B Golf

C Auto racing

D Squash

Answer: C

Question 57

Find the missing group of alphabets in the following series.

A, CD, GHI, (...), UVWXY

A LMNO

B MNOP

C MPNO

D MONP

Answer: B

Explanation:

A, CD, GHI, (...), UVWXY

A B **CD** EF **GHI** JKL **MNOP** QRST **UVWXY**

bold letters are in alphabetical series in the gap of 1, 2, 3 ...letters

Question 58

Who among the following was popularly known as the 'Frontier Gandhi'?

A Abdul Ghaffar Khan

B Asfandyar Wali Khan

C Muhammad Ali Jinnah

D Maulana Abul Kalam Azad

Answer: A

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Question 59

Purkinje fibers are specialized -

A Glandular cells in skin

B Muscle fibres in the heart

C Neurons in the brain

D Cells in blood

Answer: B

Question 60

If both object distance 'u' and image distance 'v' from a concave mirror is -20 cm and both object size and image size is 4 cm, then what is the radius of curvature 'R' of the mirror?

A -20 cm

B -10 cm

C -18 cm

D -15 cm

Answer: A

Question 61

The word aqueous (aq) is written if the reactant or product is present as a/an-

A Concentrated solution

B Isotonic solution

C Solution in kerosene

D Solution in water

Answer: D

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Question 62

What was the purpose of 'Project arrow' in postal department started in the year 2008?

A Improvement in core operations of post offices

B Focusing on money remittances and savings bank

C All of the options

D Enhancing the quality of services in mail delivery

Answer: C

Question 63

Two cars P and Q start from the opposite direction of 100 km apart. Car P reaches a distance of 30 km, and car Q reaches a distance of 25 km. What is the distance between the two cars?

A 55 km

B 45 km

C 35 km

D 25 km

Answer: B

Explanation:

Distance between the cars = 100 km

P covered = 30 km

Q covered = 25 km

distance left = $(100 - 30 - 25) = 45$ km

Question 64

How many triangles are there in the given figure?



A 15

B 18

C 16

D 14

Answer: B

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Question 65

Which of the following is essentially a solo dance?

A Kuchipudi

B Manipuri

C Kathak

D Mohiniattam

Answer: D

Question 66

What is a sponge in biology?

A A fungus

B A plant

C A fossil

D An animal

Answer: D

Question 67

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

Seven persons—L, M, N, O, P, Q and R like different colours—red, blue, white, pink, green, black and yellow, but not necessarily in the same order. They all have different hobbies (or they like different activities) shooting, travelling, dancing, gardening, hunting, painting and writing, but not necessarily in the same order. The hobby of O is shooting. The one whose hobby is gardening likes pink colour. L likes yellow colour. The one whose hobby is writing likes green colour. The hobby of Q is dancing. Neither O nor Q likes black colour. The one whose hobby is painting and travelling does not like black colour. The hobby of L is not travelling. The one whose hobby is travelling does not like red and white colour; O does not like red colour. The hobby of P is neither hunting nor gardening. P does not like green colour. R does not like green and black colour. The hobby of M is not writing.

Which of the following is the hobby of P?

- A Writing
- B Hunting
- C Travelling
- D Gardening

Answer: C

Explanation:

Travelling is the hobby of P

given

| | | |
|---|-----------|---------------|
| O | Shooting | black x red x |
| | Gardening | Pink |
| L | | Yellow |
| | Writing | Green |
| Q | Dancing | black x |
| | | |
| | | |

painting ... ---> no blk colour

L ---> no travelling

travelling --> no red white and black

P---> no hunting no gardening
' no green

R ---> no green no black , M ---> no writing

final figure

| | | |
|---|------------|--------|
| O | Shooting | White |
| R | Gardening | Pink |
| L | Painting | Yellow |
| N | Writing | Green |
| Q | Dancing | Red |
| P | Travelling | Blue |
| M | Hunting | Black |



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Question 68

"Theory of Natural selection" was proposed by -

- A Erasmus Darwin
- B Charles Huxley
- C Charles Darwin
- D Morgan

Answer: C

Question 69

Which of the following gases causes acid rain along with sulphur dioxide and carbon monoxide?

- A Hydrogen
- B Oxygen
- C Nitrogen oxides
- D Carbon dioxide

Answer: C

Question 70

What is the SI unit of electric current?

- A Volt (V)
- B Joule (J)

- C Ampere (A)
- D Coulomb (C)

Answer: C

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Question 71

Find the ODD one out from the given options.

- A BY
- B AZ
- C EV
- D CW

Answer: D

Explanation:

BY = B is in the second position of alphabetical series similarly Y is in the second position of the reverse alphabetical series
AZ = A is in the first position of alphabetical series similarly Z is in the first position of the reverse alphabetical series
EV = E is in the Fifth position of alphabetical series similarly V is in the fifth position of the reverse alphabetical series
CW = C is in the third position of alphabetical series similarly W is in the fourth position of the reverse alphabetical series
so CW is odd

Question 72

Find the roots of $2x^2 - 15x + 28$.

- A Both negative
- B Not real
- C One positive, other negative
- D Both positive

Answer: D

Explanation:

$$2x^2 - 15x + 28.$$

$$2x^2 - 8x - 7x + 28$$

$$2x(x - 4) - 7(x - 4)$$

$$(x - 4)(2x - 7) = 0.$$

$$x=4, x=\frac{7}{2}$$

Both positive

Question 73

Complete the series.

55, 59, 65, 73, 83, 95, 109, (...)

- A 125

B 138

C 129

D 136

Answer: A

Explanation:

55, 59, 65, 73, 83, 95, 109, (...)

$$55 + 4 = 59$$

$$59 + 6 = 65$$

$$65 + 8 = 73$$

$$73 + 10 = 83$$

$$83 + 12 = 95$$

$$95 + 14 = 109$$

so,

$$109 + 16 = 125$$

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Question 74

The mineral (ions) necessary for coagulation of blood is-

A Sodium

B Potassium

C Calcium

D Chlorine

Answer: C

Question 75

During setting of plaster of Paris-

A Both mass is expanded and heat is liberated

B Combustion takes place

C Heat is liberated

D Mass is expanded

Answer: A

Question 76

If the first number and the second number is 25% and 50% more than the third number respectively, find the respective ratio between the first and the second number.

A 2 : 1

B 1 : 2

C 5 : 6

D 6 : 5

Answer: C

Explanation:

Two numbers are respectively 25% (A) and 50% (B) more than a third number (C)

let the no = 100

Then A = 125 and B = 150. The ratio of A:B = 125:150

5:6

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Question 77

Complete the series.

536, 268, 134, 67, (...)

A 33.5

B 34.6

C 31.4

D 35.2

Answer: A

Explanation:

536, 268, 134, 67, (...)

$$536 \times 0.5 = 268$$

$$268 \times 0.5 = 134$$

$$134 \times 0.5 = 67$$

so,

$$67 \times 0.5 = 33.5$$

Question 78

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

Statement:

The minimum qualification for a job is graduation. However, candidates who have appeared for the final year of graduation may also apply.

Conclusions :

I. All candidates who have yet to graduate will be there in the list of selected candidates.

II. All candidates having graduation as their minimum qualification will be there in the list of selected candidates.

A Neither conclusion I nor II follows

B Both conclusions I and II follow

C Only conclusion I follows

D Only conclusion II follows

Answer: D

Explanation:

From the given statement, we can not say that all candidates having which are yet to graduate will be selected as there may be the possibilities of the selection of some or all already graduate students, so the first statement will not hold true. For the second statement we can say that if the minimum qualification is graduation so all the selected candidates will be either minimum graduate or postgraduate too. Hence, the second statement will follow.

So, statement II follows.

Question 79

A man is standing on a platform which is 70 m long. A train crosses the platform in 5.5 seconds, but it crosses the man in 2 seconds. What is the length of the train?

- A 60 m
- B 45 m
- C 80 m
- D 40 m

Answer: D

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Question 80

Which of the following is NOT a routine session of the Indian Parliament?

- A Monsoon Session
- B Winter Session
- C Budget Session
- D Summer Session

Answer: D

Question 81

In which Indian state is a greater part of the desert located?

- A Gujarat
- B Punjab
- C Rajasthan
- D Haryana

Answer: C

Question 82

A sum of money at 8% Simple Interest was placed in a deposit for 7 years. The matured amount was then invested in a scheme offering 10% Compound Interest compounded annually, thereby procuring an interest of Rs.1638 in 2 years. What was the original sum?

- A Rs.6200
- B Rs.8000

C Rs.7500

D Rs.5000

Answer: D

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Question 83

The loss incurred in a sale of an article is equal to 60% of the selling price of the article. What is the actual loss per cent?

A 28%

B 40%

C 37.5%

D 25%

Answer: C

Question 84

Which vaccine is used for the prevention of Tuberculosis?

A BCG

B ABC

C CSD

D AMG

Answer: A

Question 85

What is the other name of Soccer?

A Hockey

B Basket ball

C Football

D Polo

Answer: C

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Question 86

The sum of the ages of a father and son is 45. Six years ago, their ages were in the ratio 10 : 1. How old will the son be after six years?

A 20

B 16

C 15

D 19

Answer: C

Explanation:

$$F + S = 45 \dots (1)$$

before 6 years

$$F - 6 + S - 6 = 10X + X$$

$$F + S - 12 = 11X \dots (2)$$

PUT (1) IN (2)

$$45 - 12 = 11X$$

$$3 = X$$

X is the age of son before 6 years = 3

so present age = 3 + 6 = 9 years

so the age after 6 years = 9 + 6 = 15 years

Question 87

P, Q and R are the volumes of a cone, hemisphere and a cylinder with equal radius and height. What is the value of $P : Q : R$?

A 2 : 1 : 3

B 1 : 2 : 3

C 3 : 4 : 2

D 1 : 3 : 2

Answer: B

Explanation:

vol of cone : vol of hemisphere : vol of cylinder

$$\frac{1}{3} \times \pi \times r^2 \times h : \frac{2}{3} \times \pi \times r^3 : \pi \times r^2 \times h = P:Q:R$$

having equal radius and height

$$\frac{1}{3} \times \pi \times r^2 \times r : \frac{2}{3} \times \pi \times r^3 : \pi \times r^2 \times r = P:Q:R$$

$$1 : 2 : 3$$

Question 88

Which organisms cause infectious diseases?

A All of the options

B Protozoa

C Worms

D Viruses

Answer: A

Question 89

With which of the following sports is Santosh Trophy associated?

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

Answer: B

Question 90

How is the refractive index of a material related to the speed of light in air?

- A $\text{Refractive index} = \text{Speed of light in air} + \text{Speed of light in material}$
- B $\text{Refractive index} = \text{Speed of light in air} / \text{Speed of light in material}$
- C $\text{Refractive index} = \text{Speed of light in air} \times \text{Speed of light in material}$
- D $\text{Refractive index} = \text{Speed of light in material} / \text{Speed of light in air}$

Answer: B

Question 91

The greatest quantity of air that can be expelled after a maximum inspiratory effect is-

- A Lung volume
- B Residual volume
- C Vital volume
- D Tidal volume

Answer: A

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Question 92

In a certain code, 'AWAKE' is written as 'ZVZJD'. How is 'FRIEND' written in that code?

- A EQMHDC
- B EQHMDC
- C EQHDMC
- D EHQDMC

Answer: C

Explanation:

'AWAKE' is written as 'ZVZJD'

coded letter is just before the given letter

A before Z

W before V

A before Z

K before J

E before D

similarly for FRIEND

F before E

R before Q

I before H

E before D

N before M

D before C

so the coded word = EQHDMC

Question 93

Find the missing alphabet in the following series.

A, C, F, (...), O

A R

B M

C P

D J

Answer: D

Explanation:

A, C, F, (...), O

here the series is in Alphabetical order

and the alphabets are missing in serial number like 1,2, 3,4 so on

A B C DE F GHI J KLMN O

Question 94

The Arjun is a third generation _____ developed by India's Defence Research and Development Organisation (DRDO), for the Indian Army.

A Light combat aircraft

B Helicopter

C Main battle tank

D Jet fighter

Answer: C

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Question 95

A hemispherical metallic solid is melted and recast into a cone of equal radius 'R'. If the height of the cone is H, then:

A $H = 2R$

B $H = R$

C $H = \frac{R}{2}$

D $H = \frac{R}{3}$

Answer: A

Explanation:

When we change shape of a solid figure, volume remains constant

Vol of hemisphere = Vol of cone

$$\frac{2 \times R^3}{3} \pi = \frac{1 \times R^2}{3} \pi \times H$$

$$2R = H$$

Question 96

How much material is wasted when a solid cone of height 24 cm and radius 8 cm is recast into a solid cylinder of radius 6 cm and height 6 cm?

A 64%

B 37.5%

C 57.8%

D 52%

Answer: C

Explanation:

cone

height = $h = 24\text{cm}$

radius = $r = 8\text{cm}$

volume = $v = ?$

$$v = \frac{\pi \times r^2 \times h}{3}$$

$$v = \frac{\pi \times 8^2 \times 24}{3}$$

$$v = 512\pi\text{cm}^3$$

cylinder

height = $h = 6\text{cm}$

radius = $r = 6\text{cm}$

volume = $v = ?$

$$v = \pi \times r^2 \times h$$

$$v = \pi \times 6^2 \times 6$$

$$v = 216\pi\text{cm}^2$$

wasted material

= volume of cone - volume of cylinder

$$= 512\pi - 216\pi$$

$$= 296\pi cm^3$$

percentage

$$512\pi : 100 :: 296\pi : x$$

$$\frac{296\pi}{512\pi} 100 = x$$

$$296 \times 100 / 512 = x$$

$$0.5781 \times 100 = x$$

$$57.81 \% = x$$

so percentage of wasted material is 57.81%

Question 97

Which of the following is a 'Surface to Air Missile'?

- A Brahmos
- B K-15 Sagarika
- C Agni
- D Trishul

Answer: D

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Question 98

Simplify: $\cos \theta(1 - \tan \theta) + \sin \theta(1 - \cot \theta)$

- A $\tan \theta + \cot \theta$
- B $\sin \theta - \cos \theta$
- C $\sin \theta + \cos \theta$
- D 0

Answer: D

Question 99

If the potential difference across the ends of a conductor is halved, what happens to the current flowing through it?

- A It gets doubled
- B It gets increased
- C It gets halved
- D It gets decreased

Answer: C

Question 100

In which of the following places is Malampuzha dam located?

- A Chandigarh

- B Pune
 - C Palakkad
 - D Papanasam
- Answer: C

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