



RRB JE 24th May 2019 Shift-3

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Instructions

For the following questions answer them individually

Question 1

Find the wrong number in the given series. 12, 18, 27, 42, 62, 87

- A 18
- B 27
- C 87
- D 42

Answer: A

Explanation:

12, 18, 27, 42, 62, 87

difference is multiple of 5

$$12 + 5 = 17$$

$$17 + 10 = 27$$

$$27 + 15 = 42$$

$$42 + 20 = 62$$

$$62 + 25 = 87$$

so the wrong no. is 18

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Question 2

The Sun and the stars glow because of the presence of _____ in them.

- A Gases
- B Light energy
- C Electricity
- D Plasma

Answer: D

Question 3

What is the power of a lens whose focal length is 1 m?

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

Answer: B

Question 4

Which of the following metals is the lightest in the periodic table of elements?

- A Magnesium
- B Aluminium
- C Lithium
- D Titanium

Answer: C

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Question 5

How many 3 digit numbers are divisible by 3?

- A 97
- B 100
- C 99
- D 98

Answer: E

Question 6

When copper sulphate solution reacts with iron metal, copper metal is formed. Which of the following reactions is this?

- A Combination reaction
- B Decomposition reaction
- C Single displacement reaction
- D Double displacement reaction

Answer: C

Question 7

$\sin(A + B) \sin(A - B)$

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

Answer: D

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Question 8

Find the ODD one out from the given options.

- A 177
- B 153
- C 121
- D 159

Answer: C

Explanation:

153, 177 and 159 are divisible by 3 except 121

$$153 \div 3 = 51$$

$$177 \div 3 = 59$$

$$159 \div 3 = 53$$

$$121 \div 3 = 40.3$$

Question 9

Volume of material used in constructing a hollow cylinder of height 24 cm and thickness 1 cm is 96π . What is the sum of the internal and external radii?

- A 7 cm
- B 3 cm
- C 4 cm
- D 5 cm

Answer: C

Explanation:

height 24 cm and thickness 1 cm

$$\text{volume} = 96\pi$$

let the outer radius be R and inner radius be r

Inner radius $r = (R - 1)$ cm (*thickness = 1 cm, Inner radius = outer radius - thickness*)

$V = (\text{Volume of the external cylinder}) - (\text{Volume of the Internal cylinder})$

$$V = \pi \times h \times (R^2 - r^2) \quad (i)$$

put the given values in eq. (i), we get

$$96\pi = \pi \times h \times [R^2 - (R - 1)^2]$$

$$4 = R^2 - R^2 + 2R - 1$$

$$2R - 1 = 4$$

$$2R = 5$$

$$R = 2.5 \text{ cm}$$

$$\text{Inner radius, } r = R - 1 = 2.5 - 1 = 1.5 \text{ cm}$$

Thus,

$$\text{sum of the internal and external radii} = R + r = 2.5 + 1.5 = 4 \text{ cm .}$$

Question 10

What is the chemical formula of bleaching powder?

- A $CaOCl_2$
- B CCl_4
- C $Ca(OH)_2$
- D $CaCl_2$

Answer: A

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Question 11

The study of relationship of animals with their environment is called?

- A Ethology
- B Climatology
- C Entomology
- D Ecology

Answer: D

Question 12

A number when divided by 234 gives the remainder 36. What will be the remainder when it is divided by 13?

- A 6
- B 9
- C 10
- D 11

Answer: C

Explanation:

dividend = 234 + remainder

$$= 234 + 26$$

$$= 270$$

the remainder when it is divided by 13

$$\begin{array}{r} 270 \\ = 13 \end{array}$$

remainder = 10

Question 13

If an object starts moving and if there is no friction at all, what happens

- A The object can never stop
- B The object stops after sometime

C The object stops immediately

D The object starts flying

Answer: A

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Question 14

P and Q invested in a business in the ratio 5 : 13. Q withdrew his capital after 6 months. If they shared their profit in the ratio 25 : 26, for how long was P's amount used?

A 15 months

B 12 months

C 18 month

D 8 months

Answer: A

Explanation:

Profit = investment \times time

Therefore,

$$\frac{P_1}{P_2} = \frac{I_1 \times T_1}{I_2 \times T_2}$$

if Q invested for 6 months then P invested for (6+x) months

$$\frac{25}{26} = \frac{5 \times (6+x)}{13 \times 6}$$

x = 9 months

P = 6+x = 15 months

Question 15

Two numbers are in the ratio 4 : 5. Their LCM is 180. What is their sum?

A 81

B 72

C 90

D 70

Answer: A

Explanation:

let two numbers be 4x and 5x

Their LCM = 180 and HCF = x

$$1st\ number \times 2nd\ number = LCM \times HCF$$

$$4x \times 5x = 180 \times x$$

$$420x = 180$$

$$x = 9$$

$$1st\ number = 4 \times 9 = 36$$

$$2nd\ number = 5 \times 9 = 45$$

$$sum = 81$$

Question 16

Complete the series. 168, 151, 134, 117, (...)

- A 95
- B 100
- C 82
- D 97

Answer: B

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Question 17

In which of the following cities has ISRO launched Human Space Flight Centre in 2019

- A Bengaluru
- B Chennai
- C Hyderabad
- D Mumbai

Answer: A

Question 18

Which of the following reactions is commonly used in the hydrogenation of vegetable oils using a nickel catalyst?

- A Addition reaction
- B Substitution reaction
- C Displacement reaction
- D Oxidation reaction

Answer: A

Question 19

Which of the following is the time taken for one complete oscillation of a sound wave in the density of the medium?

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

Answer: D

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Question 20

If $\tan \alpha = \frac{1}{2}$, $\tan \beta = \frac{1}{3}$, then find $\alpha + \beta$

- A 135°
- B 45°
- C 90°
- D 0°

Answer: B

Question 21

The second most abundant element in the earth's crust is?

- A Iron
- B Silicon
- C Oxygen
- D Aluminium

Answer: B

Question 22

Travelling at $\frac{3}{4}$ of the normal speed, a person reaches his workplace 15 minutes late. How many minutes does he take usually to reach the workplace?

- A 30 minutes
- B 42 minutes
- C 45 minutes
- D 60 minutes

Answer: C

Explanation:

let s be his normal speed

t = his normal time

as we know that

$$D = s \times t$$

then

$$D = \left(\frac{3}{4}\right)s \times (t + 15)$$

here the distance is the same we can equate this to his regular day which is $D = s \times t$

$$s \times t = \left(\frac{3}{4}\right)s \times (t + 15)$$

$t=45$ minutes

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Question 23

If 'THRASH' is coded as 'UGSZTG', how will 'HEAD' be coded?

- A IDBC
- B GDBC
- C GDZC
- D IECD

Answer: A

Explanation:

THRASH' is coded as 'UGSZTG',

here odd position letter comes after one alphabets whereas coded even position letter comes before one alphabets

T after 1 letter U

H after 1 letter G

R after 1 letter S

A after 1 letter Z

S after 1 letter T

H after 1 letter G

similarly

H after 1 letter I

E after 1 letter D

A after 1 letter B

D after 1 letter C

Question 24

Gas leaked during Bhopal tragedy was?

- A Sodium isothiocyanate
- B Potassium isothiocyanate
- C Ethyl isothiocyanate
- D Methyl isocyanate

Answer: D

Question 25

The base of a right pyramid is a square with diagonal 16 units. Its slant edge is 17 units. What is its vertical height?

- A 30
- B 12
- C 15
- D 25

Answer: C

Question 26

Amindivi and Minicoy are parts of which Indian Union Territory?

- A Chandigarh
- B Daman and Diu
- C Andaman and Nicobar
- D Lakshadweep

Answer: D

Question 27

Which of the following will best complete the relationship given below? FDA : MKH :: QOL : ?

- A QUZ
- B XSV
- C XVS
- D SVX

Answer: C

Explanation:

FDA : MKH :: QOL :

letters are comes after 6 alphabets

F after 7 letter M

D after 7 letter K

A after 7 letter H

similarly

Q after 7 letter X

O after 7 letter V

L after 7 letter S

Question 28

Mushroom is a/an?

- A Fungus
- B Plant
- C Animal
- D Slime mould

Answer: A

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Question 29

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

Statements:

- 1) All flowers are candles.
- 2) No candle is lantern.

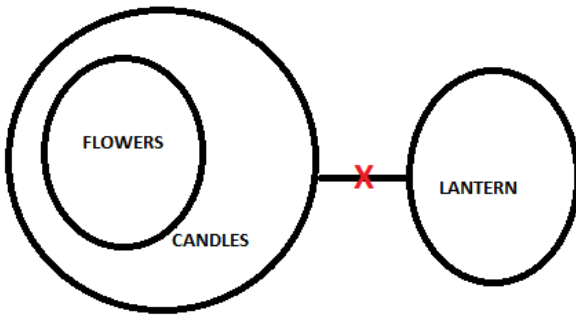
Conclusions:

- I. No flower is lantern.
- II. All candles are flowers.

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

Answer: A

Explanation:



I. No flower is lantern.

As we know no candle is lantern so , no flower is lantern too.

II. All candles are flowers.

All flowers are candle and some candles are flower not all flower so, Only conclusion I follows

Question 30

Find the ODD one out from the given options.

- A 9
- B 13
- C 11
- D 7

Answer: A

Explanation:

13, 11, 7 are prime numbers except 9

prime nos. are those which is only divisible by 1 and itself

Question 31

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

Statement:

Candidates should be young, energetic and dynamic in the age group of 27 to 32 years.

Conclusions:

I. Persons below 27 years are not energetic.

II. Persons above 32 years are not young.

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

Answer: C

Explanation:

Candidates should be young, energetic and dynamic in the age group of 27 to 32 years.

->The people of age group 27 to 32 years, should be young, energetic and dynamic

I. Persons below 27 years are not energetic.

This conclusion tells about a person below 27 years, hence it unfollows

II. Persons above 32 years are not young.

This conclusion tells about a person above 32 years, hence it unfollows

so, Neither conclusion I nor II follows

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Question 32

Raja Ravi Varma was famous in the field of?

- A Music
- B Painting
- C Literature
- D Dance

Answer: B

Question 33

In which city was the 10th Biennial International Exhibition and Conference "India Chem 2018" held?

- A Kolkata
- B Delhi
- C Chennai

D Mumbai

Answer: D

Question 34

P and Q together can complete some work in 30 days. Q and R together can do the same in 24 days. R and P together will take 20 days to complete it. If they all work together, in how many days will the job get done?

A 15

B 16

C 25

D 8

Answer: B

Explanation:

$P+Q = 30$ days

$Q+R = 24$ days

$P+R = 20$ days

Total work = $\text{lcm}(30,24,20) = 240$ days

$(P+Q)$'s efficiency = $240 \div 30 = 8$

$(Q+R)$'s efficiency = $240 \div 24 = 10$

$(P+Q+R)$'s efficiency = $240 \div 20 = 12$

total efficiency = $2(Q+P+R) = 30$

$P+Q+R = 15$

time taken = $\text{work} \div \text{effi}$

= $240 \div 15$

= 16 days

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Question 35

What is the medico-legal name given to the dissection and study of a dead human body?

A Autopsy

B Causa medico

C Analysis

D Autopsy

Answer: D

Question 36

What did Archimedes determine after discovering the Archimedes principle?

A Purity of gold in the king's crown

B Design concept of submarine

C Design concept of ship

D Purity of milk

Answer: A

Question 37

Which is the only muscle in the human body that is NOT attached at both the ends?

A Adductor

B Tongue

C Biceps

D Triceps

Answer: B

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Question 38

Who was the first Indian footballer to receive the Arjuna Award?

A Jarnail Singh

B Sailen Manna

C P.K. Bannerjee

D Tulsidas Balaram

Answer: C

Question 39

On what principal will the difference between Compound Interest and Simple Interest at 10% rate in 3 years be equal to Rs.620?

A Rs.2400

B Rs.25000

C Rs.20000

D Rs.18000

Answer: C

Explanation:

$$S.I = \frac{P \times R \times T}{100}$$

$$250 = \frac{P \times 10 \times 3}{100}$$

$$= 10$$

$$\text{compound interest} + P = P \left(1 + \frac{R}{100}\right)^n$$

$$C.I = P \left(1 + \frac{10}{100}\right)^3 - P$$

$$= \frac{31P}{1000}$$

$$S.I - C.I$$

$$\frac{31P}{1000} - \frac{3P}{10} = 620$$

$$31P = 620000$$

$$P = 20000$$

Question 40

Who among the following was the first cricketer to score a century for India in a test match?

- A Lala Amarnath
- B Surinder Amarnath
- C Deepak Shodhan
- D Hanumant Singh

Answer: A

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Question 41

Simplify: 0.004×0.5

- A 0.002
- B 2
- C 0.02
- D 0.2

Answer: A

Explanation:

$$0.004 \times 0.5$$

$$5 \times 4 = 20$$

and there are total four decimal places

so 0.0020

$$= 0.002$$

Question 42

Who was the first person to observe 'Individual Satyagrah'?

- A Mahatma Gandhi
- B Govind Ballabh Pant
- C Sardar Vallabhbhai Patel
- D Vinoba Bhave

Answer: D

Question 43

choose the alternative that best replaces the question mark in the given figure?

144	49	36	25
529	196	?	42
961	256	121	58

- A 25
- B 32
- C 30
- D 34

Answer: A

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Question 44

A's age : B's age is 4 : 3. After 6 years, A will be 26 years. What is B's present age?

- A 15
- B 9
- C 18
- D 12

Answer: A

Explanation:

$$\begin{aligned} A &= 4x \\ B &= 3x \end{aligned}$$

After 6 years

$$A + 6 = 26 \text{ years}$$

$$A = 20 \text{ years}$$

$$\begin{aligned} A &= 4 \\ B &= 3 \end{aligned}$$

$$\begin{aligned} 20 &= 4 \\ B &= 3 \end{aligned}$$

$$B = 15 \text{ years}$$

Question 45

If $\frac{1}{7}$ of a number is subtracted from the number, the result is 30 less than the number. Find the number.

- A 210
- B 140
- C 120
- D 105

Answer: A

Explanation:

let the no be N

ATQ

$$N - \frac{1N}{7} = N - 30$$

$$\frac{6N}{7} = n - 30$$

$$N = 210$$

Question 46

Which of the following parts of Constitution is associated with the Union territories?

A Part VI

B Part IX

C Part IV

D Part VIII

Answer: D

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Question 47

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

Eight friends—A, B, C, D, E, F, G and H are sitting around a circular table for a meeting facing center. A is second to the right of G who is third to the right of B. D is second to the left of F who sits between G and A. C is not a neighbour of B or E.

Who is to the immediate left of B?

A H

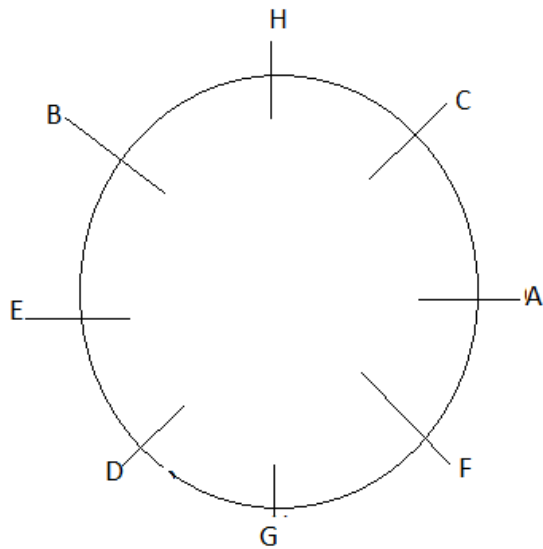
B C

C E

D D

Answer: A

Explanation:



All are facing centre

H the immediate left of B (Detailed solution pls)

Question 48

Choose the correct order of signs from the options so as to make the equation correct. $18 - 5 \times 50 = 40$

A -, x, =

B x, =, -

C =, -, x

D x, -, =

Answer: D

Explanation:

$$18 - 5 \times 50 = 40$$

lets check all the option

-, x, =

$$18 - 5 \times 50 = 40 \text{ (wrong)}$$

x, =, -

$$18 \times 5 = 50 - 40 \text{ (wrong)}$$

=, -, x

$$18 = 5 - 50 \times 40 \text{ (wrong)}$$

x, -, =

$$18 \times 5 - 50 = 40 \text{ (right)}$$

Question 49

P, Q, R and S can do a piece of work in 20 days. If P and Q together can do it in 50 days, and R alone in 60 days, then in how many days can S alone do it?

- A 90
- B 75
- C 65
- D 60

Answer: B

Explanation:

$$P+Q+R+S = 20 \text{ days}$$

$$P+Q = 50 \text{ days}$$

$$R = 60 \text{ days}$$

$$\text{Total work} = \text{lcm}(20,50,60) = 3000 \text{ days}$$

$$(P+Q+R+S)\text{'s efficiency} = 3000 \div 20 = 150$$

$$(Q+P)\text{'s efficiency} = 3000 \div 50 = 60$$

$$(R)\text{'s efficiency} = 3000 \div 60 = 50$$

$$\begin{aligned} S \text{ efficiency} &= (P+Q+R+S)\text{'s efficiency} - (Q+P)\text{'s efficiency} - (R)\text{'s efficiency} \\ &= 40 \end{aligned}$$

$$\begin{aligned} S \text{ alone do work} &= \frac{\text{work}}{\text{effi}} \\ &= \frac{3000}{40} \\ &= 75 \text{ days} \end{aligned}$$

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Question 50

Find the missing group of alphabets in the following series. VA, ND, (...), DP, BY

- A NR
- B HI
- C SE
- D TU

Answer: B

Question 51

Who was the first Indian bodybuilder to win the Mr.Universe title?

- A Manohar Aich
- B Prem Chand
- C Monotosh Roy
- D Moloy Roy

Answer: C

Question 52

Which was India's first National Park?

- A Kaziranga National Park
- B Jim Corbett National Park
- C Gir National Park
- D Kanha National Park

Answer: B

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Question 53

Find the value of $\sin(180^\circ - \theta)\cos(90^\circ - \theta) - \cos(180^\circ - \theta)\sin(90^\circ - \theta)$.

- A $\cos\theta$
- B 1
- C $\tan\theta$
- D 0

Answer: B

Explanation:

$$\sin(180^\circ - \theta)\cos(90^\circ - \theta) - \cos(180^\circ - \theta)\sin(90^\circ - \theta).$$

$$\sin(180^\circ - \theta) = \sin(\theta)$$

$$\cos(90^\circ - \theta) = \sin(\theta)$$

$$\cos(180^\circ - \theta) = -\cos(\theta)$$

$$\sin(90^\circ - \theta) = \cos(\theta)$$

$$\sin(\theta)\sin(\theta) - (-\cos(\theta)\cos(\theta))$$

$$\sin(\theta)\sin(\theta) + \cos(\theta)\cos(\theta) = 1$$

Question 54

Which of the following is equal to a measurement of 1 mA?

- A $10^6 A$
- B $10^{-6} A$
- C $10^{-3} A$
- D $10^3 A$

Answer: C

Question 55

Arthritis is a disease that affects the?

- A Lungs

- B Brain
- C Kidneys
- D Joints

Answer: D

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Question 56

A boy is standing at a platform and sees his watch showing 3:45 PM. The hour hand points east and the minute hand points west. Which direction the boy is facing now?

- A South east
- B North
- C South west
- D East

Answer: B

Question 57

Around a circular track of 120 m, P and Q start running simultaneously from the same point in the same direction at 20 m/min and 12 m/min. At how many points will they meet?

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

Answer: B

Question 58

Which hormone regulates the amount of sugar in human blood?

- A Estrogen
- B Testosterone
- C Insulin
- D Parathormone

Answer: C

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Question 59

$x^3 + 5x^2 - 2x - 24$ has a zero at $x = 2$. Find the other zeros.

- A -3, 5

B 3, 4

C -2, -3

D -3, -4

Answer: D

Question 60

In a certain code, 'ITNIETAM' is coded as 'INTIMATE'. How will 'TREVNIETARBI' be coded?

A INVERTIBARTE

B INVRETIBRATE

C INVERTIBRETA

D INVERTIBRATE

Answer: D

Explanation:

'ITNIETAM' is coded as 'INTIMATE'

here first four letter written in reverse order that is ITNI = INTI

last four letter also written in reverse order that is ETAM = MATE

similarly

TREVNIETARBI

here first six letter written in reverse order that is TREVNI = INVERT

last six letter also written in reverse order that is ETARBI = IBRATE

The word formed is INVERTIBRATE

Question 61

Complete the series. 0.7, 0.75, 0.85, 1, (...)

A 1.1

B 1.6

C 1.2

D 1.8

Answer: C

Explanation:

0.7, 0.75, 0.85, 1, (...)

$$0.7 + 0.05 = 0.75$$

$$0.75 + 0.10 = 0.85$$

$$0.85 + 0.15 = 1$$

$$1 + 0.20 = 1.20$$

so no. is 1.2

Question 62

If a sum becomes 4 times in 20 years what is the rate of simple interest given?

- A $13\frac{1}{3}\%$
- B 20%
- C 15%
- D 10%

Answer: C

Explanation:

$$\text{Sum} = \frac{P \times R \times T}{100} + P$$

$$4P = \frac{P \times R \times 20}{100} + P$$

$$4P = \frac{PR}{5} + P$$

$$R = 15\%$$

Question 63

When a three quarter moon is visible, what is it called?

- A Half moon
- B Gibbous moon
- C Full moon
- D Crescent moon

Answer: B

Question 64

P, Q and R can do a work in 15, 20 and 30 days respectively. The contractor decides to put any two of them on the job so as to finish the work earlier. Which of these choices is the best?

- A QR
- B RP
- C PQ
- D Either PQ or QR

Answer: C

Explanation:

$$P = 15 \text{ days}$$

$$Q = 20 \text{ days}$$

$$R = 30 \text{ days}$$

$$\text{Total work} = \text{lcm}(15, 20, 30) = 300 \text{ days}$$

$$(P)'s \text{ efficiency} = 300 \div 15 = 20$$

$$(Q)'s \text{ efficiency} = 300 \div 20 = 15$$

$$(R)'s \text{ efficiency} = 300 \div 30 = 10$$

P and Q efficiency is more than R

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Question 65

Lanthanides and actinides are also called _____.

- A Transition elements
- B Noble gases
- C Inner transition elements
- D Normal elements

Answer: C

Question 66

The cash difference between the selling prices of an article at a profit of 4% and 6% is Rs.3. Find the ratio of the two selling prices.

- A 52 : 53
- B 51 : 52
- C 51 : 53
- D 52 : 55

Answer: A

Explanation:

4% = profit%

Let us consider 100 as cost price

profit

$$= \frac{4}{100} 100$$

$$= 4$$

Selling price will be ,

$$\text{Cost price} + \text{profit} = 100 + 4$$

$$\text{S.p1} = 104$$

6% = profit%

Let us consider 100 as cost price

profit

$$= \frac{6}{100} 100$$

$$= 6$$

Selling price will be ,

$$\text{Cost price} + \text{profit} = 100 + 6$$

$$\text{S.p 2} = 106$$

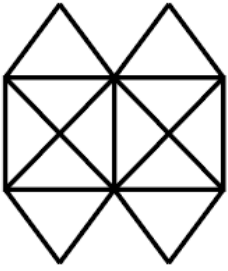
the ratio of the sp1 to the sp2

$$= \frac{104}{106}$$

= 52
= 53

Question 67

How many triangles are there in the given figure?



A 12

B 16

C 20

D 24

Answer: C

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Question 68

Iodine is used to test the presence of _____ in food.

A Starch

B Fat

C Protein

D Vitamin

Answer: A

Question 69

Which part of the human ear vibrates according to the sound received? Auditory nerve

A Auditory nerve

B Pinna

C Hammer

D Tympanic membrane

Answer: D

Question 70

If 'ROPE' is coded as 6821 and 'CHAIR' is coded as 73456, then what will be the code for 'CRAPE'?

A 76421

B 77246

C 77123

D 73456

Answer: A

Explanation:

Given that

'ROPE' is coded as 6821 and 'CHAIR' is coded as 73456

R=6

O=8

P=2

E =1

and

C =7

H=3

A=4

I=5

R=6

Therefore

C = 7

R=6

A =4

P=2

E=1

76421

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Question 71

Which of the following is used in alcoholic drinks?

A Methanol

B Butanol

C Propanol

D Ethanol

Answer: D

Question 72

Which of the following taxes was levied, collected and retained by the Central Government?

A Land revenues

B Taxes on agriculture income

C Entertainment tax

D Corporate tax

Answer: D

Question 73

What is the atomicity of Helium?

A Polyatomic

B Tri atomic

C Mono atomic

D Di atomic

Answer: C

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Question 74

Ages of P, Q and R are in the ratio 4 : 7 : 9. 8 years ago, the age of R was Q's present age. What is the sum of their ages at present?

A 60

B 100

C 50

D 80

Answer: D

Explanation:

The present age of A, B, and C are in the ratio of 4 : 7 : 9

let present ages be x, so their ages are A's age 4x, B's age 7x and C's age 9x

Eight years ago, the sum of their ages was 56

It means during 8 years the sum of age $8 \times 3 = 24$ years to be added to obtain sum of their present ages

so the present sum of ages = $56 + 24 = 80$ years.

$$4x + 7x + 9x = 80$$

$$20x = 80$$

$$\frac{80}{20}$$

$$x = 4$$

A's age $4x = 4 \times 4 = 16$ years

B's age $7x = 7 \times 4 = 28$ years

C's age $9x = 9 \times 4 = 36$ years

sum of the ages = $16 + 28 + 36 = 80$ years

Question 75

Choose the pair in which the words show the same relationship as in the pair given below. Cholera : Water

A Cat : Plague

B Malaria : Mosquito

C Medicine : Disease

D Poison : Death

Answer: B

Explanation:

Cholera : Water

Cholera is a fatal bacterial disease happens due to the water supplies in the body similarly

Malaria : Mosquito

Malaria is disease occurs due to mosquito biting

Question 76

In a survey conducted in a locality, it was found that 50% read newspaper A, 40% read newspaper B, and 20% read neither A nor B. If the number of persons who read both A and B is 500, then how many persons were surveyed?

A 7000

B 3000

C 5000

D 4500

Answer: C

Explanation:

Let the no. Of persons be N

50% of N = 0.5N

40% of N = 0.4 N

as we know that

total no. Persons = (A) person read newspaper + (B) person read newspaper - (A∩B) both read newspaper

$N = 0.5N + 0.4 N - 500$

$0.1N = -500$

$N = 5000$

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Question 77

Find the value of $\frac{1}{1 \times 2} + \frac{1}{2 \times 3} + \frac{1}{3 \times 4} + \frac{1}{4 \times 5} + \frac{1}{5 \times 6} + \dots + \frac{1}{9 \times 10}$

A $\frac{1}{10}$

B $\frac{9}{10}$

C $\frac{5}{11}$

D $\frac{2}{5}$

Answer: B

Question 78

Which of the following can be used for biological control of mosquitoes?



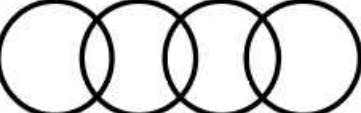
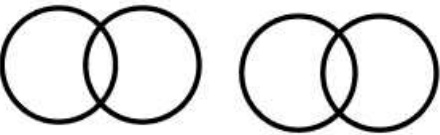

- A Gambusia
- B Ointments
- C D. D. T
- D Oil

Answer: A

Question 79

Choose the figure that best represents the relation ship among the classes given below?

Vegetable, Woman, Lion, Parrot

- A 
- B 
- C 
- D 
- E 

Answer: A

Explanation:

Vegetable, Woman, Lion, Parrot

woman is a human being

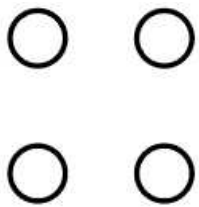
lion is a animal

Parrot is a bird

Vegetable

All four are different . There are no Similarities in them

so



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Question 80

What is the area of regular hexagon of side of 6cm?

- A $108\sqrt{3}cm^2$
- B $64\sqrt{3}cm^2$
- C $54\sqrt{3}cm^2$
- D $72\sqrt{3}cm^2$

Answer: C

Explanation:

Area of hexagon = $3\sqrt{3}a^2 \div 2$

$$3\sqrt{3}6^2 \div 2$$

$$54\sqrt{3}cm^2$$

Question 81

If $x - \frac{1}{x} = 3$ then find the value of $x^4 + \frac{1}{x^4}$

- A 129
- B 14
- C 123
- D 119

Answer: D

Question 82

Find the ODD one out from the given options.

- A HJL
- B PRT
- C OQS
- D WYZ

Answer: D

Explanation:

HJL = HJKL

PRT = PQRST

OQS = OPQRS

WYZ=WXYZ

In above all the three word, letters are Alternate except for the word WYZ

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Question 83

By how much is four-sevenths of 420 exceeds three-fifths of 200

- A 80
- B 120
- C 90
- D 60

Answer: B

Explanation:

$$\frac{4}{7}420 - \frac{3}{5}200$$

$$240 - 120 = 120$$

Question 84

simplify $\sqrt{25 + 10\sqrt{6}} + \sqrt{25 - 10\sqrt{6}}$?

- A $2\sqrt{15}$
- B $2\sqrt{5}$
- C $\sqrt{50}$
- D $\sqrt{55}$

Answer: A

Question 85

Which of the following component imparts green colour to leaves?

- A Water Urea
- B Urea
- C Chlorophyll
- D Nitrogen

Answer: C

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Question 86

Which material is used as a moderator in a nuclear power plant that slows down the neutrons and makes them fit for causing fission?

- A Beryllium
- B Boron

C Graphite

D Silico

Answer: C

Question 87

Repetition of sound produced by reflection of sound waves is called?

A Noise

B Double

C Note

D Echo

Answer: D

Question 88

Anitha walks 4 km towards north direction and turns left. After reaching 2 km, she turns right and walks 5 km. Which direction is she standing from the starting point?

A North west

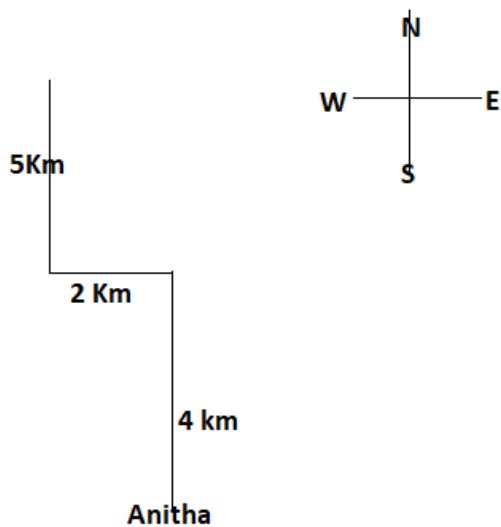
B South west

C South east

D North east

Answer: A

Explanation:



she is in North West direction from the starting point

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Question 89

Find the wrong group of alphabets in the following series. BZ, DV, ES, HN, JJ

- A ES
- B BZ
- C HN
- D JJ

Answer: A

Question 90

The amplitude of the sound wave depends on the?

- A Object's quality
- B Force with which an object is made to vibrate
- C Object's material
- D Object's temperature

Answer: B

Question 91

Find the LCM of $(2^2 \times 3^2 \times 5 \times 7)$, $(2^2 \times 3 \times 5^2 \times 7)$ and $(2 \times 3 \times 5 \times 7)$.

- A 9000
- B 7200
- C 8400
- D 6300

Answer: D

Explanation:

$$(2^2 \times 3^2 \times 5 \times 7)$$

$$(2^2 \times 3 \times 5^2 \times 7)$$

$$(2 \times 3 \times 5 \times 7)$$

lcm is common factor = $(2 \times 2 \times 3 \times 5 \text{ times } 3 \times 5 \times 7) = 6300$

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Question 92

The Fiber Grid internet system was introduced by which Chief Minister in India?

- A Manohar Parrikar
- B Chandrababu Naidu

C Raman Singh

D Arvind Kejriwa

Answer: B

Question 93

Complete the series.

1, 3, 7, 15, 31, (...)

A 47

B 39

C 63

D 127

Answer: C

Explanation:

1, 3, 7, 15, 31, (...)

all the nos. are multiplied by 2 and added by 1

$$1 \times 2 + 1 = 3$$

$$3 \times 2 + 1 = 7$$

$$7 \times 2 + 1 = 15$$

$$15 \times 2 + 1 = 31$$

so next

$$31 \times 2 + 1 = 63$$

Question 94

Two identical items are sold for Rs.200 each, with 10% gain on one but 10% loss on the other. What is the net percentage loss or gain?

A 1% gain

B 2% gain

C 2% loss

D 1% loss

Answer: D

Explanation:

let CP1 = Rs x

profit = 10%

$$\text{profit} = \frac{10}{100}x = 0.1x$$

$$\text{SP} - \text{CP} = \text{profit}$$

$$200 - x = 0.1x$$

$$\text{CP1} = 181.8$$

let CP2 = Rs y

loss = 10%

$$\text{loss} = \frac{10}{100}y = 0.1y$$

$$\text{CP} - \text{SP} = \text{loss}$$

$$y - 200 = 0.1y$$

$$\text{CP}_2 = 222.2$$

$$\text{total CP} = 181.8 + 222.2 = 404.0$$

$$\text{total SP} = 400$$

$$\text{therefore, Loss} = \text{CP} - \text{SP}$$

$$= 404 - 400$$

$$= 4$$

$$\text{Loss percent} = \frac{L}{\text{CP}} \times 100$$

$$= \frac{4}{404} \times 100$$

$$= 0.9\% \approx 1\%$$

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Question 95

Rustom-2 is a/an _____ developed by India's Defence Research and Development Organisation (DRDO).

- A Light weight vehi
- B Anti-missile tank
- C Unmanned Combat Aerial Vehicle
- D Air-to-Air missile

Answer: C

Question 96

Which of the following is NOT a base?

- A NaOH
- B KOH
- C NH_4OH
- D $\text{C}_2\text{H}_5\text{OH}$

Answer: D

Question 97

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

Statement:

This world is neither good nor evil; each man manufactures a world for himself.

Conclusions:

- I. Some people find this world good.
- II. Some people find this world bad.

- A Only conclusion II follows

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

Answer: C

Explanation:

This world is neither good nor evil; each man manufactures a world for himself.

->This world is not good man makes his own world

->This world is not bad man makes his own world

hence both the conclusions follows the statement

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Question 98

Atomic number of an element is equal to the number of ____ in the nucleus.

- A Electrons and protons
- B Neutrons
- C Electron
- D Protons

Answer: D

Question 99

Where is the pituitary gland located in the human body?

- A In the intestine
- B Near the spleen
- C On the top of kidneys
- D At the base of the brain

Answer: D

Question 100

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

Eight friends—A, B, C, D, E, F, G and H are sitting around a circular table facing the centre. Each one of them likes different brands of air conditioner—Daikin, Samsung, Blue Star, Godrej, Onida, Panasonic, Voltas and Whirlpool, but not necessarily in the same order.

A sits third to the right of the person who likes Whirlpool. A does not like Blue Star. E is not an immediate neighbour of H. C sits on the immediate right of the person who likes Blue Star. Neither A nor H likes Onida or a Samsung. The person who likes Onida is not an immediate neighbour of the person who likes Whirlpool.

The person who likes Daikin sits second to the left of E. The person who likes Daikin is an immediate neighbour of the both persons who like Panasonic and Voltas. Person who likes Voltas sits third to the right of B. B does not like Onida. F is not an immediate neighbour of A. G is not an immediate neighbour of the person who likes Daikin. Only two people sit between the person who likes Voltas and H. The persons who like Onida and the Samsung are immediate neighbours of each other.

Who among the following sits on the immediate right of A?

A B

B H

C G

D D

Answer: D

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