



GIC Assistant Exam 2013 Question paper

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LIC General Knowledge

Instructions

For the following questions answer them individually

Question 1

Which of the following is an organic rock?

- A Slate
- B Marble
- C Granite
- D Coal

Answer: D

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Question 2

Which of the following is the largest satellite of the planet Saturn?

- A Titan
- B Enceladus
- C Rhea
- D Lapetus

Answer: A

Question 3

Which soil is found in IndoGangetic plains ?

- A Loam
- B Alluvial
- C Black
- D Dry

Answer: B

Question 4

Which is the largest river of Indian sub continent?

- A Ganges
- B Indus
- C Godavari
- D Kaveri

Answer: A

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Question 5

'Leech' belongs to which group?

- A Insect
- B Mammals
- C Parasite
- D None of these

Answer: C

Question 6

Which is the most abundant gas in air?

- A Nitrogen
- B Oxygen
- C Hydrogen
- D Ozone

Answer: A

Question 7

What is the most abundant element in atmosphere?

- A Oxygen
- B Nitrogen
- C Neon
- D Ozone

Answer: B

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Question 8

Whose name is written on a ten rupee note ?

- A Governor of RBI
- B Finance Secretary of India
- C Finance Minister of India
- D None of these

Answer: A

Question 9

If the speed of rotation of earth increases, then mass of earth would

- A Decrease
- B Increase
- C No effect
- D May increase or decrease depending upon the speed of rotation

Answer: A

Question 10

Rubber cultivation is done in which of the following areas ?

- A Pampas
- B Savannah
- C Temporary Deciduous Forest
- D None of these

Answer: D

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Question 11

Acid and base combine to form

- A Salt and Water
- B Base and Water
- C Acid and Water
- D None of these

Answer: A

Question 12

Radio waves reflect back from which layer of the earth's atmosphere ?

- A Troposphere
- B Stratosphere
- C Mesosphere
- D Ozone layer

Answer: A

Question 13

If lime is added to the soil, then

- A Acidity of soil increases
- B Acidity of soil decreases
- C Salinity of soil increases
- D None of these

Answer: B

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Question 14

If a ship comes to sea water' from river water, then its bottom will

- A Rise due to buoyancy
- B Rise in water due to more mass of water
- C Same in both sea or river water
- D None of these

Answer: A

Question 15

Liver digests

- A Proteins
- B Fats
- C Amino acids
- D Water

Answer: B

Question 16

Which of the following does not excrete waste from the body ?

- A Skin
- B Liver
- C Large intestine
- D Kidney

Answer: B

Question 17

Rickets is caused due to the deficiency of

- A Vitamin A

- B Vitamin C
- C Vitamin D
- D Vitamin B12

Answer: C

Question 18

Monetary policy in India is formulated by

- A Finance Ministry
- B RBI
- C SEBI
- D CLB

Answer: B

Question 19

Which one of the following pairs of goods is an example for joint supply?

- A Coffee and Tea
- B Ink and Pen
- C Tooth Brush and Paste
- D Wool and Mutton

Answer: D

Question 20

Which countries are separated by the 49th parallel?

- A USA and Canada
- B USA and Mexico
- C France and Germany
- D Russia and China

Answer: A

Question 21

"Tidal forest" is otherwise called

- A Evergreen forest
- B Monsoon forest
- C Mangrove forest
- D Coniferous forest

Answer: C

Question 22

The rapid sliding of large masses of bed rocks is called

- A Mass wasting
- B Landslide
- C Earthquake
- D Weathering

Answer: B

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Question 23

A solid needle placed horizontally on the surface of the water floats due to

- A Viscosity of Water
- B Capillary Action
- C Water Pressure
- D Surface tension of water

Answer: D

Question 24

Which one of the following is an indicator of air pollution?

- A Lichens
- B Cycas
- C Algae
- D Bryophytes

Answer: A

Question 25

Which one of the following acids is commonly found in nature?

- A Lactic Acid
- B Sulphuric Acid
- C Nitric Acid
- D Acetic Acid

Answer: D

Explanation:
ENGLISH

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LIC English

Instructions

For the following questions answer them individually

Question 26

These essays are intellectually ____and represent various levels of complexity.

- A revealing
- B superior
- C Demanding
- D persistent

Answer: A

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Question 27

Many women in the developing countries experience a cycle of poor health that ____ before they are born and persists through adulthood passing from generation to generation.

- A derives
- B establishes
- C begins
- D originates

Answer: D

Question 28

The Education Minister emphasised the need to discover and develop each student's ____talents.

- A dormant
- B potential
- C hidden
- D intrinsic

Answer: D

Question 29

After the present tax holiday period ends, the power cost to users may become_____.

- A unreasonable
- B perishable
- C less

D intolerable

Answer: A

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Instructions

In the following questions some parts of the sentences have errors. Find out which has error. The number of that part is the answer. If a sentence has no error then the answer is d.

Question 30

A My father

B has returned back

C to Chennai yesterday

D No error

Answer: B

Question 31

A It being very dark

B the visitors found it difficulty

C to locate the switch

D No error

Answer: B

Instructions

In the following questions, choose the alternative which best expresses the meaning of the Idiom/Phrase.

Question 32

A hard nut to crack

A a foolish search

B a difficult problem

C an easy question

D expensive thing

Answer: B

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Question 33

Hand in glove

A very difficult

B open enemy

C very intimate

D very rude

Answer: C

Question 34

To flog a dead horse

A to do a thing in vain

B to act in a foolish way

C to criticise strongly

D try to revive interest in a subject that is out of date

Answer: A

Question 35

Gift of the gab

A lucky

B a big surprise

C an honest person

D to have a talent for speaking

Answer: D

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Instructions

In the following questions, fill up the blanks with appropriate words.

Question 36

Many ecologists are concerned that the "greenhouse effect" is changing many of the Earth's ___ weather patterns into ___ systems, unable to be accurately forecast by those who study them.

A predictable__ erratic

B steady__ growing

C uncertain__ uncanny

D chaotic __unforeseeable

Answer: A

Question 37

Many of the troubles and deficiencies in otherwise thriving foreign enterprises are___ ignored or diminished by the author of the article in order to___ the ways in which other businesses might attempt to imitate them.

A unintentionally over ___state

B deliberately ___stress

C intermittently__ equalize

D brilliantly __ illustrate

Answer: B

Question 38

Rita realized that she had been__ in her duties; had she been more__, the disaster might well have been avoided.

A unparalleled __careful

B irreproachable __ aware

C derelict __vigilant

D arbitrary __interested

Answer: C

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Question 39

Although his work was __ and __he was promoted anyway, simply because he had been with the company longer than anyone else.

A forceful __extraneous

B negligent ____creative

C incomplete____ imprecise

D predictable __ careful

Answer: C

Instructions

In the following questions, choose the alternative to the bold part which is suitable to express the sentence meaningfully.

Question 40

The offer is very good so it just can't be true.

A so good to

B rather good to

C too good to

D No improvement

Answer: C

Question 41

If I had gone to Mumbai, I would surely bring your books.

A would have surely brought

B could have surely brought

C might have brought

D No improvement

Answer: A

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Instructions

In the following questions choose the alternative which can be substituted for the given sentence/blank space.

Question 42

Unfair advantages for members of one's own family

- A Optimism
- B Plagiarism
- C Nepotism
- D Regionalism

Answer: C

Question 43

Always ready to attack or quarrel

- A Creative
- B Impatient
- C Aggressive
- D Malicious

Answer: C

Question 44

Drawl : Speak ::

- A Foster : Develop
- B Scintillate : Flash
- C Pare : Trim
- D Saunter : Walk

Answer: D

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Question 45

Ratify : Approva ::

- A Pacify : Conquest
- B Duel : Combat

C Appeal : Authority

D Tribulat

E Opinion

Answer: B

Instructions

In the following passage, there are blanks, each of which has been numbered. These numbers are printed below the passage and against each, five words are suggested, one of which fits the blank appropriately. Find out the appropriate word in each case.

The (1) of Bengal tigers left in the world has (2) from 100,000 to 4,000 over the last century. The main threats are (3) of habitat, poaching and the trade in tiger parts for Eastern medicines. Most Bengal tigers live in protected areas of India. Antipoaching task forces have been (4) up and there is also a trade (5) on tiger products in many countries, as a measure to save this rare species.

Question 46

(1)

A form

B kind

C glory

D number

Answer: D

Question 47

(2)

A limited

B shrunk

C abolished

D eliminated

Answer: B

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Question 48

(3)

A prevention

B encroaching

C condition

D shift

Answer: D

Question 49

(4)

- A set
- B brought
- C swept
- D deployed

Answer: D

Question 50

(5)

- A agreement
- B contract
- C ban
- D link

Answer: C

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LIC Computer Knowledge

Instructions

For the following questions answer them individually

Question 51

Which of the following registers hold the information before it goes to the decoder ?

- A control register
- B data register
- C accumulator
- D address register

Answer: B

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Question 52

A modern electronic computer is a machine that is meant for

- A doing quick mathematical calculations
- B input, storage, manipulation and outputting of data
- C electronic data processing

D performing repetitive tasks accurately

Answer: B

Question 53

Which of the following bus types are used by the Apple Macintosh computer?

A ISA

B NuBus

C EISA

D MCA

Answer: B

Question 54

When the time to establish link is large and the size of data is small, the preferred mode of data transfer is

A Circuit switching

B Packet switching

C Time division multiplexing

D All of the above

Answer: B

Question 55

Group of instructions that directs a computer is called

A Storage

B Memory

C Logic

D Program

Answer: D

Question 56

A computer controlled device for training exercises that duplicates the work environment is a

A simulator

B duplicator

C trainer

D COM device

Answer: A

Question 57

Which of the following is not an output device of a computer ?

- A Printer
- B Keyboard
- C VDU
- D CRT screen

Answer: B

Question 58

An advantage of blocking a tape is that

- A additional processing time is consumed
- B the direct file method can be emulated
- C tapes contain less data and longer tapes
- D less tape is used to store the same amount of data

Answer: D

Question 59

Perforated paper used as input or output media is known as

- A Paper tape
- B Magnetic tape
- C Punched paper tape
- D Card, punch

Answer: A

Question 60

What is the byte capacity of a drum which is 5 inch high, 10 inch in diameter, and which has 60 tracks per inch and bit density of 800 bits per inch?

- A 942000 bytes
- B 9712478 bytes
- C 192300 bytes
- D 14384 bytes

Answer: A

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Question 61

Ethernet uses

- A Bus topology

- B Ring topology
- C Star topology
- D Tree topology

Answer: A

Question 62

What is the latest write once optical storage media?

- A Digital paper
- B Megnetooptical disk
- C WORM disk
- D CDRom disk

Answer: A

Question 63

CDRom Stands for

- A Compactable Read Only memory
- B Compact Date Read only memory
- C Compactable Disk Read only memory
- D Compact Disk Read only memory

Answer: D

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Question 64

IBM 1401 is

- A First Generation Computer
- B Second Generation Computer
- C Third Generation Computer
- D Fourth Generation Computer

Answer: B

Question 65

ASCII stands for

- A American Stable Code for International Interchange
- B American Standard Code for Institutional Interchange
- C American Standard Code for Information Interchange

D American Standard code for Interchange Information

Answer: C

Question 66

Chief Component of First Generation computer was

A Transistors

B Vacuum Tubes and Valves

C Integrated Circuits

D None of these

Answer: B

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Question 67

The personal computer industry was started by

A IBM

B Apple

C Compaq

D HCL

Answer: A

Question 68

Magnetic tape can serve as

A Secondary storage media

B Output media

C Input Media

D All of the above

Answer: D

Question 69

The two major types of computer chips are

A External memory chip

B Primary memory chip

C Microprocessor chip

D Both b: and c:

Answer: D

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Question 70

Which was the most popular first generation computer?

- A IBM 1650
- B IBM 360
- C IBM 1130
- D IBM 270

Answer: A

Question 71

What is the responsibility of the logical unit in the CPU of a computer ?

- A To produce result
- B To compare numbers
- C To control flow of information
- D To do math's work

Answer: B

Question 72

A disk storage medium in the form of an assembly containing a single rigid magnetic disk permanently is

- A Fixed disk
- B Disk cartridge
- C Card punch
- D Card reader

Answer: B

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Question 73

A device that operates under the control of another device is called

- A Stem
- B Slave
- C Simulator
- D Emulator

Answer: B

Question 74

Actual data processing operations are performed in the arithmetic logic section, but not in the Storage section of a processor unit.

- A Primary
- B Accumulator
- C Buffer
- D Secondary

Answer: A

Question 75

As compared to diskettes, the hard disks are

- A More expensive
- B More portable
- C Less rigid
- D Slowly accessed

Answer: A

Explanation:
NUMERICAL ABILITY

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Lic Quant

Instructions

For the following questions answer them individually

Question 76

Two men P and Q start a journey from same place at a speed of 3km/hr and 3.5 km/hr respectively. If they move in the same direction then what is the distance between them after 4 hours?

- A 3 km
- B 2.5 km
- C 2 km
- D 3.5 km

Answer: C

Explanation:

Speed of P = 3 km/hr and speed of Q = 3.5 km/hr

Since, they are moving in same direction, relative speed = $3.5 - 3 = 0.5$ km/hr

Time = 4 hrs

Let distance between them = d km

Using, distance = speed \times time

$$\Rightarrow d = 0.5 \times 4 = 2 \text{ km}$$

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Question 77

A 500 m long goods train crosses a platform in 36 seconds. If the length of the platform is 220 m then what is the speed of the goods train in km/hr ?

- A 60
- B 72
- C 80
- D 85

Answer: B

Explanation:

Length of train = 500 m and length of platform = 220 m

Time taken = 36 sec

Let speed = x m/s

Using, $speed = \frac{distance}{time}$

$$\Rightarrow x = \frac{500+220}{36} = \frac{720}{36}$$

$$\Rightarrow x = 20 \text{ m/s}$$

$$\therefore \text{Speed in km/hr} = 20 \times \frac{18}{5} = 72 \text{ km/hr}$$

Question 78

The sum due in 219 days hence whose present worth at 5.5% of Rs. 400 is

- A Rs. 300
- B Rs. 312
- C Rs. 390
- D Rs. 413.20

Answer: D

Explanation:

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

$$\text{Here, } P = 400, R = 5.5\%, T = \frac{219}{365}$$

Substituting above values, we get :

$$\Rightarrow S.I. = \frac{400 \times 5.5 \times \frac{219}{365}}{100}$$

$$= \frac{22 \times 219}{365} = 13.20$$

$$\therefore \text{Amount due} = 400 + 13.20 = \text{Rs.}413.20$$

Question 79

Omdutt started a business with a capital of Rs. 8000. After six months, Sanjay joined him with investment of some capital. If at the end of the year each of them gets equal amount as profit, how much did Sanjay invest in the business?

- A Rs. 18000

B Rs. 17500

C Rs. 16000

D Rs. 16500

Answer: C

Explanation:

Let Sanjay invested Rs. x in the business for 6 months

Omdutt invested Rs. 8,000 for 12 months

Thus, ratio of profit received by Omdutt and Sanjay

$$\Rightarrow \frac{8000 \times 12}{x \times 6} = 1$$

$$\Rightarrow x = \frac{8000 \times 12}{6} = 8000 \times 2$$

$$\Rightarrow x = \text{Rs. } 16,000$$

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Question 80

The height of a cone is 7 cm and diameter of its base is 14 cm. What is the volume of the cone?

A 411.6cm^3

B 359.3cm^3

C 442.6cm^3

D 450.6cm^3

Answer: B

Explanation:

Height of cone, $h = 7$ cm

Radius, $r = \frac{14}{2} = 7$ cm

Volume of cone = $\frac{1}{3}\pi r^2 h$

$$= \frac{1}{3} \times \frac{22}{7} \times (7)^2 \times 7$$

$$= \frac{1}{3} \times 22 \times 49 = \frac{1078}{3}$$

$$= 359.3\text{cm}^3$$

Question 81

The inner diameter of a well is 8m. If the well is 14m deep then what is its volume?

A 459m^3

B 981m^3

C 778m^3

D 704m^3

Answer: D

Explanation:

The well is in shape of a cylinder with height, $h = 14$ m

$$\text{Radius, } r = \frac{8}{2} = 4 \text{ m}$$

$$\text{Volume of well} = \pi r^2 h$$

$$= \frac{22}{7} \times (4)^2 \times 14$$

$$= 22 \times 16 \times 2 = 704m^3$$

Question 82

HCF of $x^2 - y^2$ and $x^3 - y^3$ is :

- A $x - y$
- B $x^3 - y^3$
- C $(x^2 - y^2)$
- D $(x + y), (x^2 + xy + y^2)$

Answer: A

Explanation:

Simplifying the terms :

$$x^2 - y^2 = (x - y)(x + y)$$

$$x^3 - y^3 = (x - y)(x^2 + y^2 + xy)$$

The only common term in both expression is $x - y$

$$\therefore \text{H.C.F. of } x^2 - y^2 \text{ and } x^3 - y^3 = (x - y)$$

=> Ans - (A)

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Question 83

$(4x + 3y)^2 + (4x - 3y)^2$ is equal to:

- A $16x^2 - 9y^2$
- B $32x^2 + 18y^2$
- C $16x^2 + 9y^2$
- D $32x^2 + 9y^2$

Answer: B

Explanation:

$$\text{Expression : } (4x + 3y)^2 + (4x - 3y)^2$$

$$= (16x^2 + 9y^2 + 24xy) + (16x^2 + 9y^2 - 24xy)$$

$$= (16x^2 + 16x^2) + (9y^2 + 9y^2) + (24xy - 24xy)$$

$$= 32x^2 + 18y^2$$

Question 84

If base diameter of a cylinder is increased by 50%, then by how much per cent its height must be decreased so as to keep its volume unaltered?

- A 45.56%
- B 55.56%
- C 50.16%
- D 62.33%

Answer: B

Explanation:

Let radius, $r = 10$ and height, $h = 10$

If diameter is increased by 50%, then radius is also increased by 50%, since they both are directly proportional.

Original Volume of cylinder = $V = \pi r^2 h$

$$\Rightarrow V = \pi(10)^2(10) = 1000\pi$$

$$\text{New radius, } r' = 10 + \frac{50}{100} \times 10 = 15$$

Let new height = h'

Since, volume is unaltered, \Rightarrow New volume = $V' = \pi(r')^2 h' = 1000\pi$

$$\Rightarrow (15)^2 h' = 1000$$

$$\Rightarrow h' = \frac{1000}{225} = \frac{40}{9}$$

$$\therefore \% \text{ Change in height} = \frac{10 - \frac{40}{9}}{10} \times 100$$

$$= \frac{50}{9} \times 10 = 55.56\%$$

Question 85

The surface area of a cube is 600 sq. cm. Its diagonal is

- A $10\sqrt{3} \text{ cm}$
- B $5\sqrt{3} \text{ cm}$
- C $4\sqrt{3} \text{ cm}$
- D $10\sqrt{2} \text{ cm}$

Answer: A

Explanation:

Let the side of cube = a cm

$$\Rightarrow \text{Surface area} = 6a^2 = 600$$

$$\Rightarrow a^2 = \frac{600}{6} = 100$$

$$\Rightarrow a = \sqrt{100} = 10 \text{ cm}$$

$$\text{Face diagonal of cube} = \sqrt{10^2 + 10^2} = \sqrt{200} = 10\sqrt{2} \text{ cm}$$

$$\therefore \text{Body diagonal} = \sqrt{(10)^2 + (10\sqrt{2})^2}$$

$$= \sqrt{100 + 200} = \sqrt{300} = 10\sqrt{3} \text{ cm}$$

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Question 86

If $\sin \theta = -3/5$, and θ lies in the third quadrant, then the value of $\cos(\theta/2)$ is.

- A $\frac{1}{5}$
- B $-\sqrt{\frac{1}{10}}$
- C $-\frac{1}{5}$
- D $\sqrt{\frac{1}{10}}$

Answer: B

Explanation:

In the third quadrant, sin and cos are negative.

Given : $\sin \theta = \frac{3}{5}$

$$\Rightarrow \cos \theta = \sqrt{1 - \sin^2 \theta} = \sqrt{1 - \left(\frac{3}{5}\right)^2}$$

$$\Rightarrow \cos \theta = \sqrt{\frac{16}{25}} = -\sqrt{\frac{4}{5}}$$

Also, $\cos 2x = 2\cos^2 x - 1$

Replacing x by $\frac{\theta}{2}$

$$\Rightarrow \cos \theta = 2\cos^2 \frac{\theta}{2} - 1$$

$$\therefore \cos \frac{\theta}{2} = \sqrt{\frac{\cos \theta + 1}{2}}$$

$$= \sqrt{\frac{1 - \frac{4}{5}}{2}} = \sqrt{\frac{1}{10}}$$

$\therefore \theta$ lies in third quadrant, $\Rightarrow \cos \frac{\theta}{2} = -\sqrt{\frac{1}{10}}$

Question 87

If $(\sec \alpha + \tan \alpha)(\sec \beta + \tan \beta)(\sec \gamma + \tan \gamma) = \tan \alpha \tan \beta \tan \gamma$, then $(\sec \alpha - \tan \alpha)(\sec \beta - \tan \beta)(\sec \gamma - \tan \gamma) = ?$

- A $\cot \alpha \times \cot \beta \times \cot \gamma$
- B $\tan \alpha \times \tan \beta \times \tan \gamma$
- C $\cot \alpha + \cot \beta + \cot \gamma$
- D $\tan \alpha + \tan \beta + \tan \gamma$

Answer: A

Explanation:

Expression : $(\sec \alpha + \tan \alpha)(\sec \beta + \tan \beta)(\sec \gamma + \tan \gamma) = \tan \alpha \tan \beta \tan \gamma$ -----(i)

Using, $\sec^2 x - \tan^2 x = 1$

$$\Rightarrow \sec^2 \alpha - \tan^2 \alpha = (\sec \alpha + \tan \alpha)(\sec \alpha - \tan \alpha) = 1$$
 -----(ii)

Similarly, $(\sec \beta + \tan \beta)(\sec \beta - \tan \beta) = 1$ -----(iii)

$$(\sec \gamma + \tan \gamma)(\sec \gamma - \tan \gamma) = 1$$
 -----(iv)

Multiplying Eqns (ii),(iii)&(iv), we get :

$$\Rightarrow [(sec\alpha + tan\alpha)(sec\beta + tan\beta)(sec\gamma + tan\gamma)] \times [(sec\alpha - tan\alpha)(sec\beta - tan\beta)(sec\gamma - tan\gamma)] = 1$$

$$\text{Using (i), } \Rightarrow [tan\alpha \cdot tan\beta \cdot tan\gamma] \times [(sec\alpha - tan\alpha)(sec\beta - tan\beta)(sec\gamma - tan\gamma)] = 1$$

$$\Rightarrow (sec\alpha - tan\alpha)(sec\beta - tan\beta)(sec\gamma - tan\gamma) = \frac{1}{tan\alpha \cdot tan\beta \cdot tan\gamma}$$

$$\Rightarrow (sec\alpha - tan\alpha)(sec\beta - tan\beta)(sec\gamma - tan\gamma) = cot\alpha \cdot cot\beta \cdot cot\gamma$$

Question 88

(16)⁻³ + 2⁻³ + (8)⁻² is equivalent to

- A 1/2
- B 3/2
- C 9/2
- D 5/4

Answer: A

Explanation:

$$\text{Expression : } (16)^{-3} + 2^{-3} + (8)^{-2}$$

$$= (2)^{4 \times -3} + \frac{1}{8} + (2)^{3 \times -2}$$

$$= (2)^{-3} + \frac{1}{8} + (2)^{-2}$$

$$= \frac{1}{8} + \frac{1}{8} + \frac{1}{4}$$

$$= \frac{1+2+1}{8} = \frac{4}{8}$$

$$= \frac{1}{2}$$

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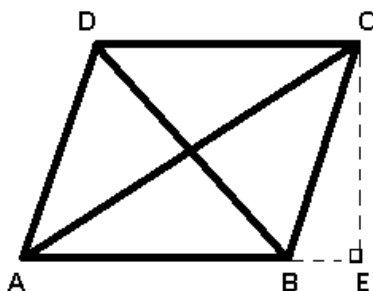
Question 89

If two triangles are on the same base and between the same parallel lines then they will be

- A equilaterals
- B right angled
- C equal in area
- D congruent

Answer: C

Explanation:



△ ABD and △ ABC are on same base AB.

AB is parallel to CD, \Rightarrow ABCD is parallelogram. CE is height of the parallelogram

$$ar(\triangle ABD) = \frac{1}{2} \times \text{base} \times \text{height}$$

$$\Rightarrow ar(\triangle ABD) = \frac{1}{2} \times AB \times CE \text{ ----- (i)}$$

Again, $ar(\triangle ABC) = \frac{1}{2} \times \text{base} \times \text{height}$

$$\Rightarrow ar(\triangle ABC) = \frac{1}{2} \times AB \times CE \text{ ----- (ii)}$$

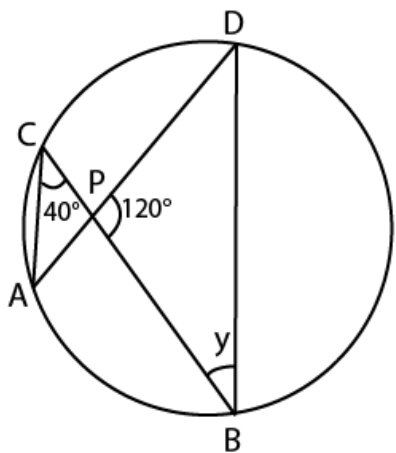
Equating (i) & (ii), we get :

$$\Rightarrow ar(\triangle ABD) = ar(\triangle ABC)$$

\Rightarrow Ans - (C)

Question 90

In the figure if $\angle ACB = 40^\circ$, $\angle DPB = 120^\circ$, then find y .



- A 10°
- B 20°
- C 15°
- D 25°

Answer: B

Explanation:

$$\angle CPA = \angle DPB = 120^\circ \text{ (Vertically opposite angles)}$$

In $\triangle APC$

$$\Rightarrow \angle ACP + \angle CPA + \angle PAC = 180^\circ$$

$$\Rightarrow \angle PAC = 180^\circ - 40^\circ - 120^\circ = 20^\circ$$

Also, $\angle PAC = \angle PBD$ (Angles in the same segment)

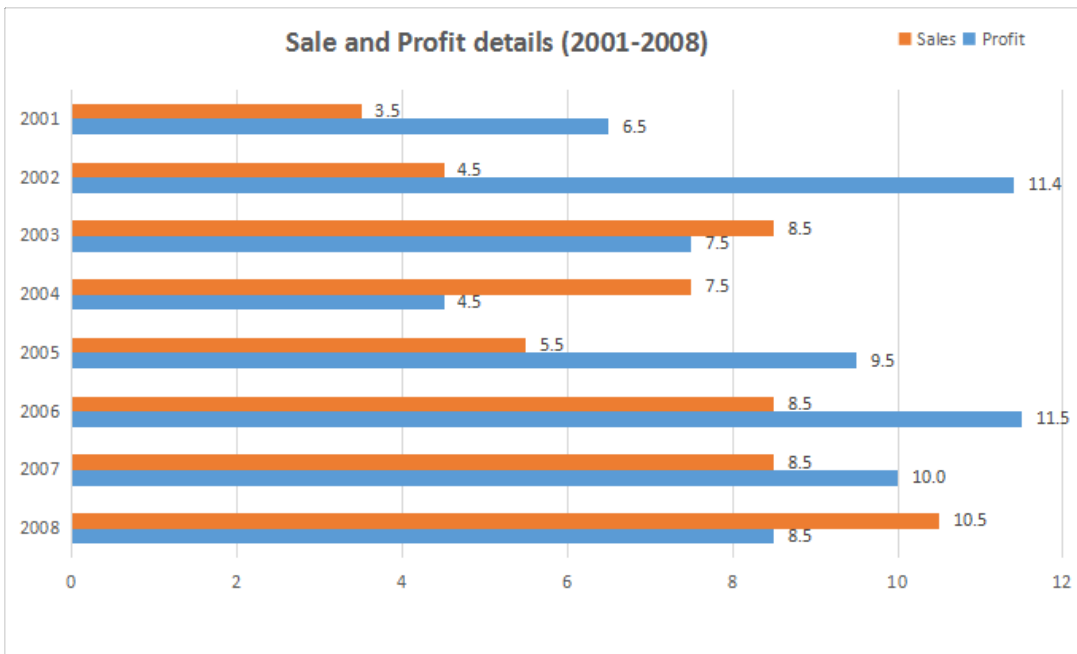
$$\Rightarrow \angle PBD = y = 20^\circ$$

Instructions

The bar graph as shown below gives information about the sales and profit details of a departmental store during the years from 20012008. Study the graph carefully and answer the questions asked here under.

Sales: (Rs. in Lakhs)

Profit: (Rs. in Ten thousands)



Question 91

Mean of annual increase in sales from 2003 to 2008 (rupees in lakhs) is

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

Answer: D

Explanation:

Increase in sales (rupees in lakhs) from :

$$2003 - 2004 = (7.5 - 8.5) = -1$$

$$2004 - 2005 = (5.5 - 7.5) = -2$$

$$2005 - 2006 = (8.5 - 5.5) = 3$$

$$2006 - 2007 = (8.5 - 8.5) = 0$$

$$2007 - 2008 = (10.5 - 8.5) = 2$$

$$\text{Sum} = (-1) + (-2) + (3) + (0) + (2) = 2$$

$$\therefore \text{Required mean} = \frac{2}{5} = 0.4$$

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Question 92

Annual mean profit of the store (rupees in ten thousands) is approximately

- A 8.5
- B 8.6
- C 8.7
- D 9.0

Answer: C

Explanation:

Total profit of the store (rupees in ten thousands) in the given years :

$$= 6.5 + 11.4 + 7.5 + 4.5 + 9.5 + 11.5 + 10 + 8.5 = 69.4$$

$$\therefore \text{Required mean} = \frac{69.4}{8}$$

$$= 8.67 \approx 8.7$$

Question 93

During which of the following years percentage of profit earned by the store on the total sale was at the highest level?

- A 2001
- B 2002
- C 2003
- D 2005

Answer: B

Explanation:

Percentage of profit earned by the store on the total sale for the year :

$$(A) : 2001 = \frac{6.5}{3.5} \times 100 \approx 185\%$$

$$(B) : 2002 = \frac{11.4}{4.5} \times 100 \approx 250\% \quad [\text{MAX}]$$

$$(C) : 2003 = \frac{7.5}{8.5} \times 100 \approx 90\%$$

$$(D) : 2005 = \frac{9.5}{5.5} \times 100 \approx 170\%$$

=> Ans - (B)

Question 94

Assuming the profit earned during the year 2001 as base (100), the profit made by the store during the year 2008 was

- A 76
- B 105
- C 121
- D 131

Answer: D

Explanation:

Profit earned during the year 2001 = 6.5

Profit earned during the year 2008 = 8.5

If, $6.5 \equiv 100$

$$\Rightarrow 8.5 \equiv \frac{100}{6.5} \times 8.5$$

$$= 130.76 \approx 131$$

Question 95

During which year between 2001 to 2008 profit made by the store as compared to the previous year was more than 100% ?

- A 2008

- B 2007
- C 2005
- D 2003

Answer: C

Explanation:

Profit made by company in year x when compared to year y is more than 100 %, when

$$\frac{x}{y} > 2$$

Thus, profit made by company in the years when compared to their previous years :

(A) : 2008 = $\frac{8.5}{10} = 0.85$

(B) : 2007 = $\frac{10}{11.5} < 1$

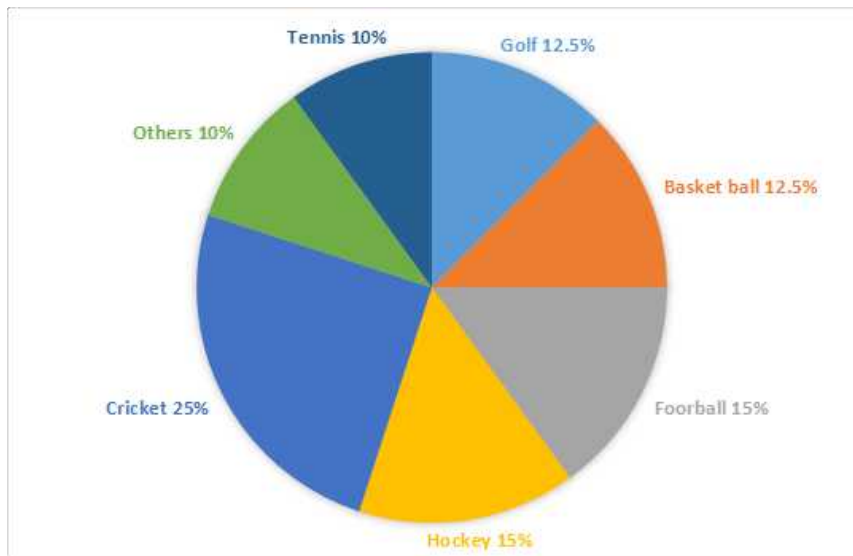
(C) : 2005 = $\frac{9.5}{4.5} > 2$

(D) : 2003 = $\frac{7.5}{11.4} < 1$

=> Ans - (C)

Instructions

The pie chart, given here, shows the spending of a country on various sports during a particular year. Study the graph carefully and answer the questions that follow:



Question 96

Graph shows that the most popular game of the country is

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

Answer: C

Explanation:

The most popular game of the country is the one in which the spent is highest.

% amount spent on :

(A) : Football = 15%

(B) : Hockey = 15%

(C) : Cricket = 25% [MAX]

(D) : Tennis = 10%

=> Ans - (C)

Question 97

Out of the following the country spent the same amount on:

A Hockey and Cricket

B Hockey and Football

C Hockey and Golf

D Tennis and Golf

Answer: B

Explanation:

% amount spent on :

(A) : hockey = 15% , cricket = 25%

(B) : hockey = 15% , football = 15% [SAME]

(C) : hockey = 15% , golf = 12.5%

(D) : tennis = 10% , golf = 12.5%

=> Ans - (B)

Question 98

The ratio of the total amount spent on football to that spent on hockey is

A 2 : 1

B 1 : 1

C 1 : 2

D 3 : 2

Answer: B

Explanation:

% amount spent on football = 15 %

% amount spent on hockey = 15 %

=> Required ratio = 15 : 15 = 1 : 1

=> Ans - (B)

Question 99

If the total amount spent on sports during the year was Rs. 1,20,00,000, how much was spent on basketball?

A Rs. 16,00,000

B Rs. 18,00,000

C Rs. 3,00,000

D Rs. 15,00,000

Answer: D

Explanation:

Total amount spent on sports during the year = Rs. 1,20,00,000

% amount spent on basketball = 12.5 %

=> Total amount spent on Basketball = $\frac{12.5}{100} \times 1,20,00,000$

= $\frac{1}{8} \times 1,20,00,000 = Rs.15,00,000$

Question 100

If the total amount spent on sports during the year was Rs. 30,00,000, the amount spent on Cricket and Hockey together was:

A Rs. 18,00,000

B Rs. 12,00,000

C Rs. 15,00,000

D Rs. 20,00,000

Answer: B

Explanation:

Total amount spent on sports during the year = Rs. 30,00,000

% amount spent together on cricket and hockey = (25 + 15)% = 40 %

=> Total amount spent on Cricket and Hockey together was = $\frac{40}{100} \times 30,00,000$

= $40 \times 30000 = Rs.12,00,000$

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LIC Reasoning

Instructions

For the following questions answer them individually

Question 101

A start for his office and walks 3 km toward north. Then he turns right and walks 2 and then again turns right and walks 5 km then again turns right and walks 2 km and then again twin turns right and walks 2 km. Where is he now from the starting point ?

A 5 km

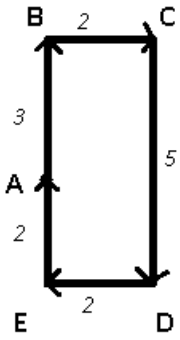
B 10 km

C 20 km

D in his own office

Answer: D

Explanation:



The person starts from A, and walks 3 km north and reaches point B.

Then he turns right and walks 2 km and reaches point C, after that he again turns right and walks 5 km, thus reaching at D.

He turns right and walks 2 km reaching E and finally he again turns right and walks 2 km taking him to his initial position.

Thus, in the end he is in his own office.

=> Ans - (D)

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Instructions

Found the answer choice which give the same relation as it is found between two items to the left of the sign.

Question 102

BDE : GHI :: JLM : ?

- A NOP
- B NOF
- C OPM
- D OPQ

Answer: D

Explanation:

Expression = BDE : GHI

The pattern followed is : $(\alpha - 3)(\alpha - 1)(\alpha) : (\alpha + 2)(\alpha + 3)(\alpha + 4)$

Similarly, if $\alpha = M$ (where α represents alphabetic characters)

Then, JLM : OPQ

=> Ans - (D)

Question 103

4 : 7 :: 9 : ?

- A 25
- B 22
- C 26
- D 18

Answer: C

Explanation:

Expression = $4 : 7 :: 9 : ?$

The pattern is = $n^2 : (n^3 - 1)$

So, $9 = 3^2$

Thus, question mark will be replaced by = $3^3 - 1$

= $27 - 1 = 26$

=> Ans - (C)

Question 104

KJL : ONP :: CBD : ?

A ORV

B BCF

C OTM

D GFH

Answer: D

Explanation:

Expression = KJL : ONP

The pattern followed is : $(\alpha)(\alpha - 1)(\alpha + 1) : (\alpha + 4)(\alpha + 3)(\alpha + 5)$

Similarly, if $\alpha = C$ (where α represents alphabetic characters)

Then, CBD : GFH

=> Ans - (D)

NICL AO Solved Previous Papers PDF

Instructions

For the following questions answer them individually

Question 105

Which one is the same as triangle, tickle, itch?

A CEEPS

B FLAVOUR

C PUNGENT

D SOUR

Answer: D

Question 106

Which one is like animation, life, wings?

A Exist

B Enarise

C Mortality

D Surge

Answer: C

Question 107

Opposite : Summer : Winter :: Cold : ?

- A Wet
- B Warm
- C Freezing
- D Bold

Answer: B

Explanation:

Summer and Winter are opposites of each other.

So, among the given options, the opposite of cold is warm.

Ans - (B)

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Question 108

Net : Ball :: Sparrow : ?

- A Nest
- B Bird
- C Sky
- D Wanna

Answer: A

Explanation:

Net is used while playing with ball and sparrow uses nest for living.

=> Ans - (A)

Instructions

In each of the following questions four pairs of word are given out of which word in three pairs are related the same way. Find the pair which is differently related

Question 109

- A Harsh, Polite
- B Accident, Negligence
- C Devil, Wrong
- D Ink, Writing

Answer: A

Explanation:

Ink is used for writing. Devil is used for wrongdoing. Accident are caused because of negligence.

But harsh is the opposite of polite. Hence, it is the odd one out.

=> Ans - (A)

Question 110

- A Shave, Razor
- B Cut, Knife
- C Draw, Pencil
- D House, Live

Answer: D

Explanation:

In all the relations given above the second thing (noun) is used to do the first thing (verb) but the last one.

Eg : Razor is used to shave, pencil is used to draw and knife is used to cut.

=> Ans - (D)

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Instructions

For the following questions answer them individually

Question 111

How many 7's are there in the number series which are followed by 2 or 3 or 4 or 5?

73727475757207072737475767778747273747576777879777273

- A 12
- B 10
- C 18
- D 17

Answer: D

Explanation:

We need to find 7's which are followed by 2 or 3 or 4 or 5, i.e. We need to find pairs of 72 or 73 or 74 or 75.

73 72 74 75 75 72 07072 73 74 75 76777874 72 73 74 75 767778797772 73

There are 17 such pairs.

=> Ans - (D)

Question 112

How many 7's are there such that each has a 7 preceding it and 7 following it?

73727475757207072737475767778747273747576777879777273

- A 3
- B 4
- C 5
- D 6

Answer: A

Explanation:

We need to find 7's which has a 7 preceding and following it, i.e. we need to find triplet of 7s

73727475757207072737475767778747273747576777879777273

Thus, there are 3 such triplets.

=> Ans - (A)

Question 113

Which is the alternate crop in jute growing area?

- A Wheat
- B Paddy
- C Cotton
- D Sugarcane

Answer: B

Explanation:

In jute growing area, Paddy is the alternate crop.

=> Ans - (B)

OICL Solved Previous Papers PDF

Question 114

Which one of the following is high digestive protein crop?

- A Maize
- B Cotton
- C Wheat
- D Tea

Answer: C

Explanation:

Among the following options, Wheat is high digestive protein crop.

=> Ans - (C)

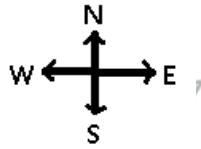
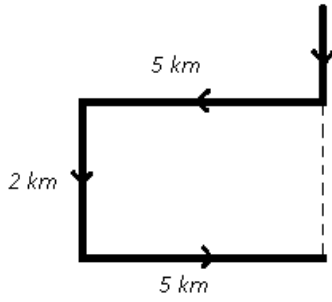
Question 115

A start and walks towards south, he then turns to his right and walks 5 km then again turns left and walks 3 km and then again turns left and walks 5 km. In which direction is he from the starting point ?

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

Answer: B

Explanation:



He starts from south, when he turns right, that means he is going in west.

After that he turns left, he is going in south.

He turned left again, that means he is going east.

His final position is in south of his initial position.

Ans - (B)

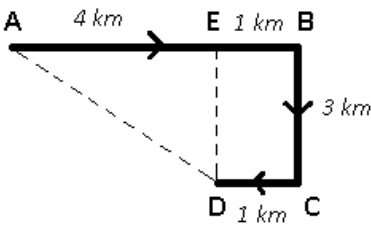
Question 116

A man drove his car 5 km towards east ward direction. He turned right went for 3 km then he turned west and drove for 1 km. How far is he from the starting point.

- A 5 km
- B 6 km
- C 10 km
- D 20 km

Answer: A

Explanation:



$AB = 5 \text{ km}$, $ED = BC = 3 \text{ km}$, $EB = DC = 1 \text{ km}$

$\Rightarrow AE = AB - EB = 5 - 1 = 4 \text{ km}$

In $\triangle AED$

$$\Rightarrow (AD)^2 = (AE)^2 + (ED)^2$$

$$\Rightarrow (AD)^2 = (4)^2 + (3)^2 = 16 + 9$$

$$\Rightarrow AD = \sqrt{25} = 5 \text{ km}$$

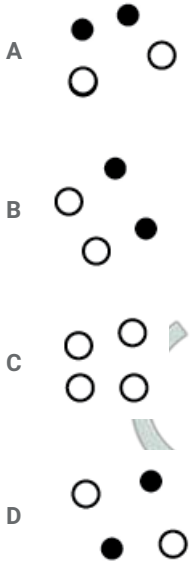
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Instructions

In the answer choices are given the reflected views of the first figure. You are to point out which is the correct reflected view.

Question 117





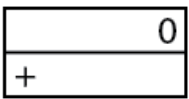
Answer: B

Explanation:

In the reflected view, the two black dots on the top left will appear at top right. While in the bottom, the two white dots on the right will appear on bottom left. Only the second option matches the above description.

=> Ans - (B)

Question 118



- A

0	
+	
- B

	0
	+
- C

0	
	+
- D

0	+

Answer: C

Explanation:

In the reflected view, in the first row '0' which is on the right side will appear on the left side on the same row. While in the bottom row, '+' which is on the left side will appear on the right hand side on the same row. Only the third option matches the above description.

=> Ans - (C)

Instructions

In the following questions some relationships have been expressed through symbols which are –
× stands for greater than
θ stands for not less than
+ stands for equal to
– stands for Less than
β stands for not greater than
Φ stands for not equal to
Bearing this relationship in mind work out the following questions

Question 119

A β B - C implies

- A A θ B
- B A + C
- C B + C
- D C × A

Answer: D

Explanation:

Expression : $A \beta B - C \rightarrow A \leq B < C$

(A) : $A \theta B \rightarrow A \geq B$

(B) : $A + C \rightarrow A = C$

(C) : $B + C \rightarrow B = C$

(D) : $C \times A \rightarrow C > A$ [TRUE]

=> Ans - (D)

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Question 120

A Φ B + C implies

- A C - B
- B B + C
- C C β A
- D A × B

Answer: B

Explanation:

$A \Phi B + C \rightarrow A \neq B = C$

(A) : $C - B \rightarrow C < B$

(B) : $B + C \rightarrow B = C$ [TRUE]

(C) : $C \beta A \rightarrow C \leq A$

(D) : $A \times B \rightarrow A > B$

=> Ans - (B)

Instructions

In the questions below, if the given interchanges are made in signs and numbers, which one of the four answer choices would be correct ?

Question 121

Given interchanges : signs + and - and numbers 8 and 2.

A $2 - 8 + 6 = 4$

B $2 - 8 + 7 = 4$

C $2 + 8 - 9 = 16$

D $2 - 8 + 4 = 5$

Answer: A

Explanation:

Here, + \leftrightarrow - and 8 \leftrightarrow 2

(A) : $2 - 8 + 6 = 8 + 2 - 6 = 4 = \text{R.H.S.}$

(B) : $2 - 8 + 7 = 8 + 2 - 7 = 3 \neq \text{R.H.S.}$

(C) : $2 + 8 - 9 = 8 - 2 + 9 = 15 \neq \text{R.H.S.}$

(D) : $2 - 8 + 4 = 8 + 2 - 4 = 6 \neq \text{R.H.S.}$

\Rightarrow Ans - (A)

Question 122

Given interchanges : signs \times and + and numbers 4 and 2.

A $2 + 4 \times 5 = 13$

B $2 + 4 \times 6 = 15$

C $2 \times 4 + 4 = 18$

D $2 \times 4 + 4 = 9$

Answer: A

Explanation:

Here, $\times \leftrightarrow +$ and 4 \leftrightarrow 2

(A) : $2 + 4 \times 5 = 4 \times 2 + 5 = 13 = \text{R.H.S.}$

(B) : $2 + 4 \times 6 = 4 \times 2 + 6 = 14 \neq \text{R.H.S.}$

(C) : $2 \times 4 + 4 = 4 + 2 \times 2 = 8 \neq \text{R.H.S.}$

(D) : $2 \times 4 + 4 = 4 + 2 \times 2 = 8 \neq \text{R.H.S.}$

\Rightarrow Ans - (A)

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Instructions

For the following questions answer them individually

Question 123

In a certain code "JUDICIAL" is written as JDUICILA. How will "GLORIOUS" be written?

A GOTOSRSU

- B GLOOTRSU
- C GOUCILA
- D GOLRIOSU

Answer: D

Explanation:

The position of some of the letters is changed.

The pattern is : 2nd and 3rd alphabets are swapped and the last two alphabets are interchanged.

JUDICIAL -> JDUICILA

Similarly, GLORIOUS -> GOLRIOSU

Question 124

In a certain code MAN is written as SANM and WORD is written as SORDW. How would SALE be written in the code?

- A SALES
- B LESAS
- C SEALS
- D LEASS

Answer: A

Explanation:

Directions : In the question below there is a different rule according to which each of the cells below are filled except one. Understand the rule applied and fill in the entries in the particular place so as to complete the Puzzle.

Question 125

Directions : In the question below there is a different rule according to which each of the cells below are filled except one. Understand the rule applied and fill in the entries in the particular place so as to complete the Puzzle.

17	18	19
17	36	1
12	31	?

- A 12
- B 11
- C 13
- D 15

Answer: B

Explanation:

The pattern followed is : Sum of the numbers in each row = 54

$$17 + 18 + 19 = 54$$

$$17 + 36 + 1 = 54$$

$$\text{Similarly, } 12 + 31 + x = 54$$

$$\Rightarrow x = 54 - 43 = 11$$



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