



SSC CGL 2013 Tier 1 19 May Morning I

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General Awareness

Instructions

For the following questions answer them individually

Question 1

Which dignitary, who is a not member of Parliament, has the right to address it?

- A Chief Justice of India
- B Attorney General of India
- C Solicitor General of India
- D Chief Election Commissioner of India

Answer: B

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Question 2

The Declaration of American Independence was based on the theory of

- A Civil Rights
- B Moral Rights
- C Legal Rights
- D Natural Rights

Answer: D

Question 3

For which tax, was constitutional status given much later after its introduction in a small way in 1994 - 95?

- A Customs Duty
- B Corporation Tax
- C Taxes on Services
- D Income Tax

Answer: C

Question 4

The first Sultan who requested and obtained letters of investiture from the Caliph (Khalifa) was

- A Iltutmish
- B Balban
- C Firuz Tughluq
- D Alauddin Khilji

Answer: A

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Question 5

The Buddhist monk who spread Buddhism in Tibet was

- A Nagarjuna
- B Ananda
- C Asanga
- D Padmasambhava

Answer: D

Question 6

In 1937, an educational conference endorsing Gandhi's proposals for 'basic education' through the vernacular medium was held at

- A Surat
- B Bombay
- C Ahmedabad
- D Wardha

Answer: D

Question 7

"What is the Third Estate?" pamphlet associated with the French Revolution, was written by :

- A Marquis Lafayette
- B Edmund Burke
- C Joseph Foulon
- D Abbe Sieyes

Answer: D

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Question 8

Gandhi's Salt Satyagraha was a part of—

- A Champaran Satyagraha
- B Quit India Movement
- C Non Cooperation Movement
- D Civil Disobedience Movement

Answer: D

Question 9

Stagflation refers to a situation which is characterised by

- A stagnant employment and deflation
- B deflation and rising unemployment
- C inflation and rising employment.
- D inflation and rising unemployment

Answer: D

Question 10

The demand for necessities is

- A elastic
- B perfectly inelastic
- C inelastic
- D perfectly elastic

Answer: B

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Question 11

The balance of payments of a country is in equilibrium when the

- A demand as well as supply of the domestic currency are the highest
- B demand for the domestic currency is equal to its supply
- C demand for the domestic currency is the highest
- D demand for the domestic currency is the lowest

Answer: B

Question 12

What is the meaning of the "value added"?

- A output at factor cost
- B output at market prices
- C goods and services less depreciation
- D goods and services less cost of intermediate goods and services

Answer: D

Question 13

The difference between GNP and NNP equals

- A corporate profits
- B personal taxes
- C transfer payments
- D depreciation

Answer: D

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Question 14

Who decides a 'bill' is a money bill ?

- A Prime Minister
- B Speaker of Lok Sabha
- C Chairman of Rajya Sabha
- D President

Answer: B

Question 15

Which country is regarded as the home of 'Fabian Socialism'?

- A Russia
- B England
- C France
- D Italy

Answer: B

Question 16

In plantwater relationships, symbol ' Ψ ' is used to represent

- A Osmotic pressure
- B Water potential
- C Solute potential
- D Osmosis

Answer: B

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Question 17

A molecule in plants comparable to haemoglobin in animals is

- A Cytochrome
- B Cellulose
- C Chlorophyll
- D Carotene

Answer: C

Question 18

An Antigen is

- A the result of Antibody
- B the opposite of Antibody
- C the stimulus for Antibody formation
- D the residue of an Antibody

Answer: C

Question 19

Blood does not coagulate inside the body due to the presence of

- A Plasma
- B Haemoglobin
- C Heparin
- D Fibrin

Answer: C

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Question 20

The atmospheric layer farthest from the Earth's surface is known as

- A Stratosphere
- B Exosphere
- C Ionosphere
- D Mesosphere

Answer: B

Question 21

The temperate grasslands of South America are called

- A Prairies
- B Pampas

C Downs

D Steppes

Answer: B

Question 22

Contours are the lines which are drawn joining places having

A equal height from mean sea level

B equal rainfall

C equal air pressure

D equal temperature

Answer: A

General Science Notes for SSC CGL

Question 23

Soil formed by leaching and oxidation is

A Black soil

B Laterite soil

C Red soil

D Montane soil

Answer: B

Question 24

Which strait separates Australia and Tasmania?

A Bass

B Babel Mandeb

C Palk

D Berring

Answer: A

Question 25

Photon is the fundamental unit/quantum of

A gravitation

B electricity

C magnetism

D light

Answer: D

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Question 26

A liquid disturbed by stirring comes to rest due to

- A density
- B surface tension
- C viscosity
- D centripetal force

Answer: C

Question 27

The nuclear particle having no mass and no charge, but only spin is

- A proton
- B neutrino
- C meson
- D electron

Answer: B

Question 28

The technology that is used to establish wireless networking is

- A TCP/IP
- B J2ME
- C MATLAB
- D Bluetooth

Answer: D

Question 29

What is USB ?

- A Ultimate Service Bit
- B Universal SentBit
- C Universal Serial Bus
- D Urgent Sent Bit

Answer: C

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Question 30

In a period from Li to F, ionisation potential

- A cannot be predicted
- B increases
- C decreases
- D remains same

Answer: A

Question 31

Which metal can deposit copper from copper sulphate solution ?

- A Platinum
- B Mercury
- C Iron
- D Gold

Answer: C

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Question 32

Leech is an ectoparasite on cattle, which is

- A Carnivorous
- B Omnivorous
- C Sanguivorous
- D Herbivorous

Answer: D

Question 33

How many chambers does a mammalian heart have ?

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

Answer: A

Question 34

When Arsenic atoms are added to Germanium lattice, it becomes a/an

- A Insulator
- B Superconductor
- C Intrinsic semiconductor
- D Extrinsic semiconductor

Answer: D

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Question 35

Who won the "Miss World" title for 2012?

- A Alexandria Mills
- B Vanya Mishra
- C Wenxia Yu
- D Ivian Sarcos

Answer: C

Question 36

Who was the first Hindi writer to receive Jnanpith Award?

- A Mahadevi Verma
- B Sumitranandan Pant
- C Dr. Ramdhari Singh Dinkar
- D S.H. Vatsyayan

Answer: B

Question 37

Who is the author of the book *Cricketing Life* ?

- A Christopher Martin Jenkins
- B Sunil Gavaskar
- C Kapil Dev
- D Tony Greig

Answer: A

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Question 38

Which country has three capitals viz. Administrative, Legislative and Judicial?

- A Chile
- B Malaysia
- C Canada
- D South Africa

Answer: D

Question 39

How many countries in Africa are members of the Organisation of Petroleum Exporting Countries (OPEC)?

- A Four
- B One
- C Two
- D Three

Answer: A

Question 40

Who is the Chairman of the 14th Finance Commission ?

- A D. Subba Rao
- B Montek Singh Ahluwalia
- C M. Govinda, Rao
- D Dr. YV Reddy

Answer: D

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Question 41

The largest coral reef in the world is found near the coast of

- A Brazil
- B Australia
- C Sri Lanka
- D Cuba

Answer: B

Question 42

Which one of the following Indian World Heritage Sites is not in Madhya Pradesh ?

- A Khajuraho Temples
- B Sun Temple Konark

- C Sanchi Stupa
- D Rock Shelters of Bhimbetka

Answer: B

Question 43

Which gas is used to dilute oxygen in the gas cylinders used by divers ?

- A Krypton
- B Argon
- C Helium
- D Neon

Answer: C

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Question 44

Which one of the following does not form oxyacid ?

- A Sulphur
- B Chlorine
- C Nitrogen
- D Fluorine

Answer: D

Question 45

The release of which fish into ponds and wells helps in controlling mosquitoes?

- A Snail
- B Crab
- C Dogfish
- D Gambusia fish

Answer: D

Question 46

The ambient air is stable when the ambient lapse rate is

- A Neutrally stable
- B Hyperadiabatic
- C Subadiabatic
- D Superadiabatic

Answer: C

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Question 47

Exposure to mixtures of chemicals are greater than expected on the basis of effects of exposure to each chemical individually. This is known as

- A Additives
- B Antagonism
- C Synergism
- D Independent

Answer: C

Question 48

The filter over which sewage is sprinkled is called as

- A Trickling filter
- B Percolating filter
- C Contact bed
- D Intermittent sand filter

Answer: A

Question 49

Who was the captain of the West Indies Cricket team, which won the T20 World Cup 2016?

- A Ravi Rampaul
- B Chris Gayle
- C Marlon Samuels
- D Darren Sammy

Answer: D

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Question 50

Which football player has won the FIFA World Player Award (FIFA Ballon d'Or) for four years in a row?

- A Andres Iniesta
- B Cristiano Ronaldo
- C Lionel Messi
- D Michel Platini

Answer: C

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English

Instructions

In the following questions, some parts of the sentences have errors and some are correct. Find out which part of a sentence has an error. The number of that part is the answer. If a sentence is free from error, your answer is d: i.e. No error.

Question 51

Being a holiday (a) we went out (b) for a picnic. (c) No error. (d)

- A Being a holiday
- B we went out
- C for a picnic.
- D No error

Answer: A

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Question 52

If we have no definite aim before us (a) we would only wonder about in aimless pursuits (b) and achieve nothing. (c) No error. (d)

- A If we have no definite aim before us
- B we would only wonder about in aimless pursuits
- C and achieve nothing.
- D No error

Answer: B

Question 53

He is anxious not only (a) to acquire knowledge (b) but also eager to display it. (c) No error. (d)

- A He is anxious not only
- B to acquire knowledge
- C but also eager to display it.
- D No error

Answer: A

Question 54

I went to (a) see the Taj Mahal (b) in a moonlit night. (c) No error. (d)

- A I went to
- B see the Taj Mahal

C in a moonlit night.

D No error

Answer: D

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Question 55

Having found a piece of cheese, (a) two cats went to a dog (b) to divide it among them. (c) No error. (d)

A Having found a piece of cheese,

B two cats went to a dog

C to divide it among them.

D No error

Answer: C

Instructions

In the following questions, sentences are given with blanks to be filled with an appropriate word(s). Four alternatives are suggested for each question. Choose the correct alternative out of the four.

Question 56

There is aamount of fatty acids and carbohydrates in some of the imported chocolates.

A neglecting

B negligent

C negligible

D neglected

Answer: C

Question 57

I'm not as successfulshe is.

A then

B as

C like

D than

Answer: B

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Question 58

Many Tamil-speaking Sri Lankans..... from the island to escape the military and its atrocities.

- A flown
- B flee
- C fled
- D flew

Answer: C

Question 59

.....the new Safari Storme, Mahindra has more leverage in increasing the sales.

- A With
- B At
- C On
- D In

Answer: A

Question 60

The passenger car sales showed a decline7% to 5.6%.

- A from
- B for
- C of
- D to

Answer: A

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Instructions

In the following questions, out of the four alternatives, choose the one which best expresses the meaning of the given word.

Question 61

Hallucination

- A delusion
- B habitat
- C dress
- D deception

Answer: A

Question 62

Salacious

- A angry
- B unhappy
- C satisfied
- D lustful

Answer: D

Question 63

Derive

- A contain
- B attain
- C sustain
- D obtain

Answer: C

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Instructions

In the following questions, choose the word opposite in meaning to the given word.

Question 64

Retrench

- A revamp
- B belie
- C deviate
- D recruit

Answer: D

Question 65

Aggravate

- A depreciate
- B extinguish
- C subsidise
- D alleviate

Answer: D

Question 66

Indelible

- A decorous
- B surprising
- C concerted
- D temporary

Answer: D

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Instructions

In the following questions, four alternatives are given, for the Idiom/Phrase printed in bold in the sentence. Choose the alternative which best expresses the meaning of the Idiom/ Phrase.

Question 67

My ten year-old son is an incredible live-wire.

- A lazy
- B dangerous
- C naughty
- D energetic

Answer: D

Question 68

He had to cool his heels before he could get an appointment with the doctor.

- A to be kept waiting
- B to make publicly known
- C to exercise influence
- D to lose one's temper

Answer: A

Question 69

The captains of the rival teams should, try to bury the hatchet.

- A put up a stiff competition
- B make peace
- C win the game
- D forget the past

Answer: B

Question 70

He stopped at the bar to wet his whistle.

- A have a nap
- B be happy
- C have a problem
- D have a drink

Answer: D

Question 71

Over the years, we remained loyal through thick and thin.

- A to our principles
- B to employers and subordinates
- C in married life
- D in spite of all the difficulties

Answer: D

Instructions

In the following questions, a sentence/ part of the sentence is printed in bold. Below are given alternatives to the bold sentence/part of the sentence at (a), (b) and (c) which may improve the sentence. Choose, the correct alternative. In case no improvement is needed, your answer is (d).

Question 72

New hires in this laboratory should anticipate excellent research opportunities and getting valuable clinical, experience.

- A as well as
- B and also getting
- C and obtaining
- D No improvement

Answer: A

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Question 73

It is more better to take this route than the other one.

- A good
- B better
- C more good
- D No improvement

Answer: B

Question 74

She is absent; she must be sick again.

- A She is absent; she has been sick again
- B She is absent: she is sick again
- C She is absent; she must have been sick again
- D No improvement

Answer: D

Question 75

Jackie has already gone to the airport she will meet us at the check-in counter.

- A gone to the airport and Jackie will meet us
- B gone to the airport and she will meet us
- C gone to the airport she ought to meet us
- D No improvement

Answer: B

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Question 76

The place at which the two roads meet , you will find a small log cabin.

- A Where the two roads meet
- B At the place where the two roads meet
- C The place where the two roads meet
- D No improvement

Answer: A

Question 77

The vivid photos of majestic animals and colourful birds from the wild-life park is a graphic depiction of what is beautiful in the continent of Africa.

- A is a graphic depiction of what was beautiful in
- B are graphic depictions of what is beautiful in
- C is a beautiful and graphic depiction of
- D No improvement

Answer: B

Question 78

Although I was initially apprehensive, I found the eating of snails to be a rather pleasant experience .

- A I ate the pleasant snail's experience
- B I found the snails experienced
- C I found it to be a more pleasant experience
- D No improvement

Answer: C

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Question 79

The man ate an apple, an orange, and washed his hands .

- A an apple and an orange, and washed his hands
- B an apple, an orange, washed his hands
- C an apple, an orange and his washed hands
- D No improvement

Answer: A

Question 80

After we ate a spectacular nine-course dinner, three television shows were watched by us.

- A we were watching three television shows
- B we engaged in the watching of three shows
- C we watched three television shows
- D No improvement

Answer: C

Question 81

The Blue Whale, weighing more than 150 tons, the largest known animal on Earth.

- A weighing more than 150 tons, it is
- B weighing more than 150 tons, is the
- C which weighs more than 150 tons, being the
- D No improvement

Answer: B

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Instructions

In the following questions, out of the four alternatives, choose the one which can be substituted for the given words/sentence.

Question 82

More like a woman than a man in manners and habits

- A Unmanly
- B Effeminate
- C Womanish
- D Delicate

Answer: B

Question 83

Handwriting which is difficult or impossible to read

- A Unintelligible
- B Eligible
- C Illegible
- D Illogical

Answer: C

Question 84

To play the part of, and function as, some other person

- A Imitate
- B Pretend
- C Impersonate
- D Act

Answer: C

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Question 85

Not easily pleased by anything

- A Fastidious
- B Maiden
- C Medieval
- D Precarious

Answer: A

Question 86

To die without having made a will

- A Intaglio
- B Inveterate
- C Intestate
- D Insolvent

Answer: C

Question 87

One who enjoys inflicting pain on himself

- A masochist
- B nihilist
- C egoist
- D sadist

Answer: A

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Question 88

Murder of a brother

- A Fratricide
- B Patricide
- C Regicide
- D Homicide

Answer: A

Instructions

In the following questions, four words are given in each question, out of which only one word is correctly spelt. Find the correctly spelt word.

Question 89

- A anihilate
- B Annihilate
- C anihillate
- D Annihillate

Answer: B

Question 90

- A embarased

- B embarrassed
- C embarrassed
- D embarrassed

Answer: C

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Instructions

In the following questions, you have a passage with 10 questions. Read the passage carefully and choose the best answer to each question out of the four alternatives.

Many people who are looking to get a pet dog get a puppy. There are many reasons why people get puppies. After all, puppies are cute, friendly, and playful. But even though puppies make good pets, there are good reasons why you should consider getting an adult dog instead. When you get a puppy, you have to teach it how to behave. You have to make sure that the puppy is housebroken so that it does not go to the bathroom inside the house. You have to teach the puppy, not to jump up on your guests or chew on your shoes. You have to train the puppy to walk on a leash. This is a lot of work.

On the other hand, when you get an adult dog there is a good chance that it will already know how to do all of the previously mentioned things. Many adult dogs have already been housebroken. Many adult dogs will not jump on or chew things that you do not want them to jump on or chew. Many adult dogs will be able to walk on a leash without pulling you to the other side of the street.

Puppies also have a lot of energy and want to play all of the time. This can be fun, but you might not want to play as much as your puppy does. Puppies will not always sleep through the night or let you relax as you watch television.

On the other hand, most adult dogs will wait on you to play. What is more, they will sleep when you are sleeping and are happy to watch television on the couch right beside you. There is one last reason why you should get an adult dog instead of a puppy. When most people go to the pound to get a dog, they get a puppy. This means that many adult dogs spend a lot of time in the pound and some never find good homes. So if you are looking to get a dog for a pet, you should think about getting an adult dog. They are good pets who need good homes.

Question 91

Which is the best example of a dog that is housebroken ?

- A Muffin chews on people's shoes
- B Spot goes outside to use the bathroom
- C Rex always breaks things inside the house
- D Rover never jumps on guests

Answer: B

Question 92

The author apparently thinks that puppies are

- A not as playful as adult dogs
- B hardworking
- C friendly and playful
- D not as cute as adult dogs

Answer: C

Question 93

Which is the best synonym for 'behave' as applicable to this passage?

- A act
- B listen
- C understand
- D train

Answer: A

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Question 94

The passage speaks of

- A the work involved in training puppies
- B the immature acts of puppies
- C how puppies do not make good pets
- D how puppies can be very destructive

Answer: B

Question 95

As used in paragraph 3, which is the best synonym for relax ?

- A rest
- B work
- C leave
- D play

Answer: A

Question 96

The author begins paragraphs 2 and 4 with the phrase, "On the other hand". This phrase is used to

- A support the following paragraph
- B highlight an example
- C contradict previous information
- D contradict a later statement

Answer: C

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Question 97

In the final paragraph, the author says "many adult dogs spend a lot of time in the pound, and some never find good homes," Based on the passage, why is this most likely?

- A People do not want to get a dog that does not have much time left to live
- B People see adult dogs as unhappy and dangerous, while they see puppies as cute and friendly
- C People understand that most adult dogs still need a lot of training before they understand how to behave properly
- D People think that puppies are cute and playful and do not always think about how much work it will take to train them

Answer: D

Question 98

Based on the information in the passage, it can be understood that someone who owns a puppy must be very

- A responsible
- B strict
- C serious
- D optimistic

Answer: A

Question 99

According to the passage, why is it easier to take care of adult dogs than puppies?

- I. Puppies need to learn how to walk well on a leash.
- II. Adult dogs have less energy than puppies.
- III. It is harder for adult dogs to find a home than it is for puppies.

- A I, II and III
- B I only
- C I and II only
- D II and III only

Answer: A

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Question 100

Based on the information in the passage, which of the following statements is false ?

- A Adult dogs do not need to eat very much.
- B Puppies have a lot of energy
- C Puppies need a lot of attention
- D Adult dogs do not like to play

Answer: A

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Quant

Instructions

For the following questions answer them individually

Question 101

The radius of a circle is a side of a square. The ratio of the areas of the circle and the square is

- A 1 : π
- B π : 1
- C π : 2
- D 2 : π

Answer: B

Explanation:

Let, the radius of circle = side of square = a

$$\frac{\text{area of circle}}{\text{area of square}} = \frac{\pi a^2}{a^2}$$

$$= \pi$$

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Question 102

How much percent more than the cost price should a shopkeeper mark his goods so that after allowing a discount of 25% on the marked price, he gains 20%?

- A 70%
- B 50%
- C 60%
- D 55%

Answer: C

Explanation:

Let C.P. of article = Rs. 100 and the marked price of the article = Rs. x

$$\text{Amount after profit} = 100 + \frac{20}{100} * 100 = 120$$

$$\Rightarrow x \times \frac{75}{100} = 120$$

$$\Rightarrow x = \frac{120 * 100}{75} = 160$$

i.e. 60% above cost price.

Question 103

An article is marked at 5,000. The shopkeeper allows successive discounts of $x\%$, $y\%$, $z\%$ on it. The net selling price is

- A $\frac{(100-x)(100+y)(100+z)}{200}$
- B $\frac{(100+x)(100+y)(100-z)}{200}$

C $\frac{(100-x)(100-y)(100-z)}{200}$

D $\frac{(100-x)(100+y)(100-z)}{200}$

Answer: C

Explanation:

Marked price = 5,000

Successive discounts of $x\%$, $y\%$ and $z\%$ are allowed on it

$$\Rightarrow \text{S.P.} = 5000 \times \frac{(100-x)}{100} \times \frac{(100-y)}{100} \times \frac{(100-z)}{100}$$

$$= \frac{(100-x)(100-y)(100-z)}{200}$$

Question 104

A shopkeeper offers a discount of 10% on his articles. The marked price of the article is 450. The selling price should be

A 395

B 410

C 405

D 400

Answer: C

Explanation:

Marked price = 450

Discount % = 10%

$$\Rightarrow \text{Discounted amount} = \frac{10}{100} * 450 = 45$$

$$\therefore \text{Selling price} = 450 - 45 = 405$$

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Question 105

The ratio of number of balls in bags x, y is 2 : 3. Five balls are taken from bag y and are dropped in bag x . Number of balls are equal in each bag now. Number of balls in each bag now is

A 45

B 20

C 30

D 25

Answer: D

Explanation:

Let number of balls in bags x and y respectively = $2a$ and $3a$

$$\therefore 3a - 5 = 2a + 5$$

$$\Rightarrow a = 5 + 5 = 10$$

$$\Rightarrow \text{Total number of balls} = 5a = 50$$

$$\therefore \text{Balls in each bag now} = 25$$

Question 106

Divide 2,600 among A, B, C in the ratio $1/2 : 1/3 : 1/4$ Find the share of each.

A 1,200, 600, 800

B 1,200, 800, 600

C 600, 800, 1,200

D 800, 600, 1,200

Answer: B

Explanation:

$$A : B : C = \frac{1}{2} : \frac{1}{3} : \frac{1}{4}$$

$$\text{L.C.M.}(2,3,4) = 12$$

Multiplying each ratio by 12

$$\Rightarrow A : B : C = 6 : 4 : 3$$

$$\Rightarrow \text{A's share} = \frac{6}{13} * 2600 = 1200$$

$$\text{B's share} = \frac{4}{13} * 2600 = 800$$

$$\text{C's share} = \frac{3}{13} * 2600 = 600$$

Question 107

A positive integer when divided by 425 gives a remainder 45. When the same number is divided by 17, the remainder will be

A 11

B 8

C 9

D 10

Answer: A

Explanation:

Let the number be 45

So, when 45 is divided by 425 \Rightarrow remainder = 45

Now, when 45 is divided by 17

$$\Rightarrow \text{Remainder} = 45 \% 17 = 11$$

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Question 108

$(256)^{0.16} \times (256)^{0.09}$ is

A 256.25

B 4

C 16

D 64

Answer: B

Explanation:

$$\text{Expression : } (256)^{0.16} \times (256)^{0.09}$$

$$= (256)^{0.16+0.09}$$

$$= (256)^{0.25}$$

$$= (4^4)^{\frac{1}{4}} = 4$$

Question 109

A can do a piece of work in 6 days. B is 25% more efficient than A. How long would B alone take to finish this work?

A $4\frac{4}{5}$ days

B $3\frac{1}{3}$ days

C $5\frac{1}{4}$ days

D $2\frac{2}{3}$ days

Answer: A

Explanation:

Ratio of A's and B's efficiency = 4 : 5

=> Ratio of time taken by A and B = 5 : 4

$$\therefore \text{Time taken by B} = \frac{6 \times 4}{5}$$

$$= \frac{24}{5} = 4\frac{4}{5} \text{ days}$$

Question 110

A, B and C can do a piece of work in 20, 30 and 60 days respectively. In how many days can A do the work if he is assisted by B and C on every third day ?

A 10 days

B 12 days

C 15 days

D 20 days

Answer: C

Explanation:

(A + B + C)'s 1 day's work

$$= \frac{1}{20} + \frac{1}{30} + \frac{1}{60} = \frac{3+2+1}{60}$$

$$= \frac{1}{10}$$

$$\text{A's 2 day's work} = \frac{2}{20} = \frac{1}{10}$$

$$\Rightarrow \text{Work done in first 3 days} = \frac{1}{10} + \frac{1}{10}$$

$$= \frac{2}{10} = \frac{1}{5}$$

Hence, the work will be finished in 15 days.

Question 111

2 men and 3 boys can do a piece of work in 10 days while 3 men and 2 boys can do the same work in 8 days. In how many days can 2 men and 1 boy do the work ?

- A 8 days
- B 7 days
- C 12.5 days
- D 2 days

Answer: C

Explanation:

Let the total work be 1 unit

Let rate at which 1 man do the work = x units/day

The rate at which 1 boy do the work = y units/day

=> Rate at which 2 men and 3 boys do the work = $\frac{1}{10}$ units/day

$$\Rightarrow 2x + 3y = \frac{1}{10}$$

Also, rate at which 3 men and 2 boys do the work = $\frac{1}{8}$ units/day

$$\Rightarrow 3x + 2y = \frac{1}{8}$$

Solving above equations, we get :

$$x = \frac{7}{200} \text{ \& } y = \frac{1}{100}$$

To find = $2x + y$

$$= \frac{7}{100} + \frac{1}{100} = \frac{8}{100}$$

\therefore No. of days required for 2 men and 1 boy to finish the work = $\frac{1}{\frac{8}{100}} = \frac{100}{8}$

= 12.5 days

Question 112

The perimeter of a rectangular plot is 48 m and area is 108 m². The dimensions of the plot are

- A 36 m and 3 m
- B 12 m and 9 m
- C 27 m and 4 m
- D 18 m and 6 m

Answer: D

Explanation:

Let the length of the plot be l and breadth be b

=> Perimeter of rectangular plot = $2(l + b) = 48$

$$\Rightarrow l + b = 24$$

Area of plot = $lb = 108$

$$\Rightarrow l(24 - l) = 108$$

$$\Rightarrow l^2 - 24l + 108 = 0$$

$$\Rightarrow l^2 - 6l - 18l + 108 = 0$$

$$\Rightarrow l(l - 6) - 18(l - 6) = 0$$

$$\Rightarrow l = 6, 18$$

When $l = 6 \Rightarrow b = 18$

and when $l = 18 \Rightarrow b = 6$

\Rightarrow Dimensions of the plot are 18 m and 6 m.

Question 113

If the total surface area of a hemisphere is 27π square cm, then the radius of the base of the hemisphere is

A $9\sqrt{3}$ cm

B 3 cm

C $3\sqrt{3}$ cm

D 9 cm

Answer: B

Explanation:

Let the radius of the hemisphere be r

$$\Rightarrow \text{Total surface area of hemisphere} = 3\pi r^2 = 27\pi$$

$$\Rightarrow r^2 = 9$$

$$\Rightarrow r = \sqrt{9} = 3 \text{ cm}$$

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Question 114

A fraction becomes $\frac{9}{11}$, if 2 is added to both the numerator and the denominator. If 3 is added to both the numerator and the denominator it becomes $\frac{5}{6}$. What is the fraction?

A $\frac{7}{9}$

B $\frac{3}{7}$

C $\frac{5}{9}$

D $\frac{7}{10}$

Answer: A

Explanation:

Let the fraction be $\frac{x}{y}$

$$\Rightarrow \frac{x+2}{y+2} = \frac{9}{11}$$

$$\Rightarrow 11x + 22 = 9y + 18$$

$$\Rightarrow 11x - 9y + 4 = 0$$

$$\text{Also, } \frac{x+3}{y+3} = \frac{5}{6}$$

$$\Rightarrow 6x + 18 = 5y + 15$$

$$\Rightarrow 6x - 5y + 3 = 0$$

Solving above equations, we get $x = 7$ and $y = 9$

$$\Rightarrow \text{Required fraction} = \frac{7}{9}$$

Question 115

If $x = 1 - \sqrt{2}$, then the value of $(x - 1/x)^3$

- A -8
- B 8
- C $2\sqrt{2}$
- D 1

Answer: B

Explanation:

Expression : $x = 1 - \sqrt{2}$

$$\Rightarrow \frac{1}{x} = \frac{1}{1 - \sqrt{2}}$$

$$\Rightarrow \frac{1}{x} = \frac{1}{1 - \sqrt{2}} \times \frac{1 + \sqrt{2}}{1 + \sqrt{2}}$$

$$\Rightarrow \frac{1}{x} = -1 - \sqrt{2}$$

To find : $(x - \frac{1}{x})^3$

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

$$= 2^3 = 8$$

Question 116

if $\frac{a}{b} + \frac{b}{a} - 1 = 0$, then the value of $a^3 + b^3$ is

- A 3
- B 0
- C 1
- D -1

Answer: B

Explanation:

Expression : $\frac{a}{b} + \frac{b}{a} - 1 = 0$

$$\Rightarrow \frac{a^2 + b^2}{ab} = 1$$

$$\Rightarrow a^2 + b^2 = ab \text{ -----Eqn(1)}$$

To find : $a^3 + b^3$

$$= (a + b)(a^2 + b^2 - ab)$$

Using eqn(1), we get :

$$= (a + b)(ab - ab)$$

$$= 0$$

Question 117

If $x + \frac{1}{x} = 99$, find the value of $\frac{100x}{2x^2+102x+2}$

- A 1/6
- B 1/2
- C 1/3
- D 1/4

Answer: C

Explanation:

Given : $x + \frac{1}{x} = 99$

To find : $\frac{100x}{2x^2+102x+2}$

$$= \frac{50x}{x^2+1+51x}$$

Dividing numerator and denominator by x

$$= \frac{50}{x + \frac{1}{x} + 51}$$

Substituting value of $(x + \frac{1}{x})$, we get :

$$= \frac{50}{99+51} = \frac{50}{150}$$

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

Question 118

If $x = 3 + 2\sqrt{2}$, then find the value of $x^2 + \frac{1}{x^2}$

- A 36
- B 30
- C 32
- D 34

Answer: D

Explanation:

Expression : $x = 3 + 2\sqrt{2}$

$$\Rightarrow \frac{1}{x} = \frac{1}{3+2\sqrt{2}}$$

$$\Rightarrow \frac{1}{x} = \frac{1}{3+2\sqrt{2}} \times \frac{3-2\sqrt{2}}{3-2\sqrt{2}}$$

$$\Rightarrow \frac{1}{x} = 3 - 2\sqrt{2}$$

$$\therefore x + \frac{1}{x} = 3 + 2\sqrt{2} + 3 - 2\sqrt{2} = 6$$

Squaring both sides, we get :

$$\Rightarrow (x + \frac{1}{x})^2 = 6^2$$

$$\Rightarrow x^2 + \frac{1}{x^2} + 2 = 36$$

$$\therefore x^2 + \frac{1}{x^2} = 34$$

Question 119

If $(a + b + c) = 0$, then $\left(\frac{a^2}{bc} + \frac{b^2}{ca} + \frac{c^2}{ab}\right)$

- A 3
- B -1
- C 0
- D 1

Answer: A

Explanation:

It is given that $a + b + c = 0$

Let $a = 1, b = 1$ and $c = -2$ [We can take any values that satisfy above equation]

To find : $\left(\frac{a^2}{bc} + \frac{b^2}{ca} + \frac{c^2}{ab}\right)$

$$= \frac{1^2}{1 \cdot -2} + \frac{1^2}{1 \cdot -2} + \frac{-2^2}{1 \cdot 1}$$

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

$$= -1 + 4 = 3$$

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Question 120

If x and y are positive real numbers and $xy = 8$, then the minimum value of $2x + y$ is

- A 9
- B 17
- C 10
- D 8

Answer: D

Explanation:

As x & y are positive real numbers, we can use $AM \geq GM$

Let two numbers be $2x$ and y

$$\Rightarrow \frac{2x+y}{2} \geq \sqrt{2xy}$$

$$\Rightarrow 2x + y \geq 2\sqrt{16}$$

$$\Rightarrow 2x + y \geq 8$$

\Rightarrow Minimum value of $(2x + y)$ is 8

Question 121

The graphs of $2x + 1 = 0$ and $3y - 9 = 0$ intersect at the point

- A $(-1/2, -3)$
- B $(-1/2, 3)$
- C $(1/2, -3)$

D None of these

Answer: B

Explanation:

Equations : $2x + 1 = 0$ and $3y - 9 = 0$

Solving above equations, we get :

$$x = \frac{-1}{2} \text{ and } y = 3$$

=> The graphs of above equations will intersect at $(\frac{-1}{2}, 3)$

Question 122

In triangle ABC, $\angle BAC = 75^\circ$, $\angle ABC = 45^\circ$. BC is produced to D. If $\angle ACD = x^\circ$, then $\frac{x}{3}\%$ of 60° is

A 30°

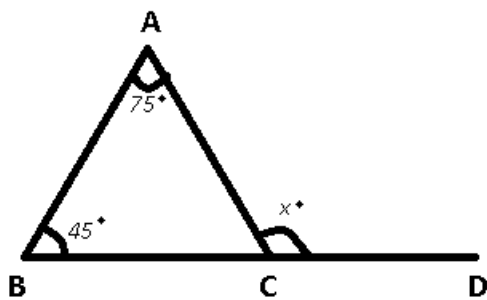
B 48°

C 15°

D 24°

Answer: D

Explanation:



Using exterior angle property, we get :

$$\Rightarrow \angle ACD = \angle ABC + \angle BAC$$

$$\Rightarrow x = 45^\circ + 75^\circ = 120^\circ$$

Now, $\frac{x}{3}\%$ of 60°

$$= \frac{120}{3} \% \text{ of } 60^\circ = \frac{40}{100} * 60$$

$$= 24^\circ$$

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Question 123

Out of four numbers, the average of the first three is 15 and that of the last three is 16. If the last number is 19, the first is

A 19

B 15

C 16

D 18

Answer: C

Explanation:

Let the 4 numbers be a, b, c, d and $d = 19$

Average of first three numbers = 15

Sum of first three numbers = $3 \times 15 = 45$

$$\Rightarrow a + b + c = 45$$

Sum of last three = $3 \times 16 = 48$

$$\Rightarrow b + c + d = 48$$

$$\Rightarrow b + c = 48 - 19 = 29$$

Substituting in above equation, we get :

$$\Rightarrow a + 29 = 45$$

$$\Rightarrow a = 16$$

Question 124

In a family of 5 members, the average age at present is 33 years. The youngest member is 9 years old. The average age of the family just before the birth of the youngest member was

A 30 years

B 29 years

C 25 years

D 24 years

Answer: A

Explanation:

Average age of the family = 33

Total age of the 5 members = $5 \times 33 = 165$ years

Sum of ages of the 5 members 9 years ago = $165 - 9 \times 5 = 120$

Number of members in the family 9 years ago = 4

Average age 9 years ago = $\frac{120}{4} = 30$

Question 125

A dishonest dealer professes to sell his goods at the cost price but uses a false weight of 850 g instead of 1 kg. His gain percent is

A $17\frac{12}{17}\%$

B $17\frac{11}{17}\%$

C $71\frac{11}{17}\%$

D $11\frac{11}{17}\%$

Answer: B

Explanation:

Let the cost price of the goods be Rs 1000/kg \Rightarrow Re 1/g

$$\text{Selling price} = \text{Rs } 1000/850 \text{ g} \Rightarrow \text{Rs } \frac{20}{17} / \text{g}$$

$$\text{Profit \%} = \frac{\frac{20}{17} - 1}{1} * 100 \%$$

$$= \frac{300}{17} = 17\frac{11}{17} \%$$

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Question 126

In a college, 40% of the students were allotted group A, 75% of the remaining were given group B and the remaining 12 students were given group C. Then the number of students who applied for the groups is

- A 100
- B 60
- C 80
- D 92

Answer: C

Explanation:

Let the total number of students who applied for the groups be $100x$

$$\text{No. of students allotted group A} = \frac{40}{100} * 100x = 40x$$

$$\text{Students remaining} = 100x - 40x = 60x$$

$$\text{Students given group B} = \frac{75}{100} * 60x = 45x$$

$$\text{Remaining students} = 60x - 45x = 15x$$

Acc to ques :

$$\Rightarrow 15x = 12$$

$$\Rightarrow x = \frac{4}{5} = 0.8$$

$$\therefore \text{Total number of students} = 100 * 0.8 = 80$$

Question 127

A train 150 metres long crosses a milestone in 15 seconds and crosses another train of the same length travelling in the opposite direction in 12 seconds. The speed of the second train in km/hr is

- A 52
- B 56
- C 54
- D 58

Answer: C

Explanation:

1st train crosses milestone in 15 seconds.

$$\Rightarrow \text{Speed of 1st train} = \frac{150}{15} = 10 \text{ m/s}$$

Length of 2nd train = 150 m

Let speed of 2nd train = x m/s

Acc to ques :

$$\Rightarrow \frac{150+150}{x+10} = 12$$

$$\Rightarrow x + 10 = 25$$

$$\Rightarrow x = 25 - 10 = 15 \text{ m/s}$$

$$\Rightarrow \text{Speed of 2nd train} = 15 * \frac{18}{5} \text{ km/h}$$

$$= 54 \text{ km/h}$$

Question 128

A person can row a distance of one km upstream in ten minutes and downstream in four minutes. What is the speed of the stream ?

A 4.5 km/h

B 4 km/h

C 9 km/h

D 5.6 km/h

Answer: A

Explanation:

Let the speed of the person be x km/h and speed of stream be y km/h

$$\Rightarrow \text{Speed when going upstream} = (x - y) \text{ km/h}$$

$$\text{and speed while going downstream} = (x + y) \text{ km/h}$$

$$\Rightarrow \frac{1}{x-y} = \frac{10}{60}$$

$$\Rightarrow x - y = 6$$

$$\text{Also, } \frac{1}{x+y} = \frac{4}{60}$$

$$\Rightarrow x + y = 15$$

Subtracting the two equations, we get :

$$2y = 9$$

$$\Rightarrow \text{Speed of stream} = y = 4.5 \text{ km/h}$$

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Question 129

A certain sum of money will be doubled in 15 years at the rate of simple interest percent per annum

A 25

B $5\frac{1}{2}$

C 6

D $6\frac{2}{3}$

Answer: D

Explanation:

Let the principal amount be P

Since, the money is doubled in 15 years, \Rightarrow Amount after 15 years = $2P$

$$\Rightarrow \text{Interest after 15 years} = 2P - P = P$$

Let rate of interest be $r\%$

$$\Rightarrow \text{S.I.} = \frac{P * r * 15}{100} = P$$

$$\Rightarrow r = \frac{100}{15} = 6\bar{3}\%$$

Question 130

In an isosceles triangle, if the unequal angle is twice the sum of the equal angles, then each equal angle is

- A 120°
- B 60°
- C 30°
- D 90°

Answer: C

Explanation:

Let the angles of isosceles triangle be α, α, β

$$\text{Now, } \beta = 2(\alpha + \alpha)$$

$$\Rightarrow \beta = 4\alpha$$

Also, sum of angles of a triangle is 180°

$$\Rightarrow 2\alpha + \beta = 180^\circ$$

$$\Rightarrow 2\alpha + 4\alpha = 180^\circ$$

$$\Rightarrow \alpha = \frac{180}{6} = 30^\circ$$

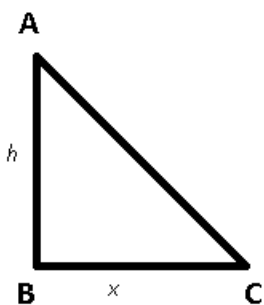
Question 131

At an instant, the length of the shadow of a pole is $\sqrt{3}$ times the height of the pole. The angle of elevation of the Sun at that moment is

- A 75°
- B 30°
- C 45°
- D 60°

Answer: B

Explanation:



Let height of pole = $AB = h$

Length of shadow = $BC = x$

Angle of elevation of sun = $\angle ACB = \theta = ?$

Acc to ques : $x = \sqrt{3}h$

In $\triangle ABC$

$$\Rightarrow \tan \theta = \frac{AB}{BC}$$

$$\Rightarrow \tan \theta = \frac{h}{x}$$

$$\Rightarrow \tan \theta = \frac{h}{\sqrt{3}h} = \frac{1}{\sqrt{3}}$$

$$\Rightarrow \theta = 30^\circ$$

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Question 132

If θ is positive acute angle and $3(\sec^2\theta + \tan^2\theta) = 5$, then which one is true ?

A $\cos 2\theta = \sin 2\theta$

B $\cos 2\theta = \sin \theta$

C $\cos 2\theta = \tan \theta$

D $\cos 2\theta = \cos \theta$

Answer: B

Explanation:

Given : $3(\sec^2\theta + \tan^2\theta) = 5$

$$\Rightarrow \sec^2\theta + \tan^2\theta = \frac{5}{3} \text{ -----(i)}$$

Also, $\sec^2\theta - \tan^2\theta = 1$ -----(ii)

Adding both equations, $\Rightarrow 2\sec^2\theta = \frac{8}{3}$

$$\Rightarrow \cos^2\theta = \frac{3}{4}$$

$$\Rightarrow \cos\theta = \frac{\sqrt{3}}{2} = \cos(30^\circ)$$

$$\Rightarrow \theta = 30^\circ$$

Now, $\cos(60^\circ) = \sin(30^\circ)$

$$\Rightarrow \cos(2\theta) = \sin(\theta)$$

$$\Rightarrow \text{Ans - (B)}$$

Question 133

Two circles touch each other externally. The distance between their centres is 7 cm. If the radius of one circle is 4 cm, then the radius of the other circle is

A 3.5 cm

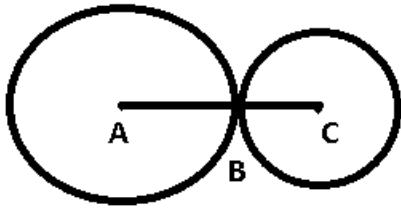
B 3 cm

C 4 cm

D 2 cm

Answer: B

Explanation:



Given : $AC = 7$ cm and $AB = 4$ cm

To find : $BC = ?$

Solution : Clearly, $BC = AC - AB$

$$= 7 - 4 = 3 \text{ cm}$$

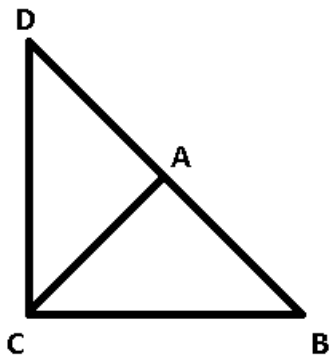
Question 134

In a $\triangle ABC$, $AB = AC$ and BA is produced to D such that $AC = AD$. Then the $\angle BCD$ is

- A 100°
- B 60°
- C 80°
- D 90°

Answer: D

Explanation:



Given : $AB = AC = AD$

To find : $\angle BCD = ?$

Solution : Since, $AB = AC$, $\Rightarrow \angle ABC = \angle ACB$

and $\angle ACD = \angle ADC$

and $\angle BCD = \angle ACB + \angle ACD$

In $\triangle BCD$

$$\Rightarrow \angle CDB + \angle DBC + \angle BCD = 180^\circ$$

$$\Rightarrow \angle CDB + \angle DBC + (\angle ACD + \angle ACB) = 180^\circ$$

$$\Rightarrow 2\angle ACB + 2\angle ACD = 180^\circ$$

$$\Rightarrow \angle ACB + \angle ACD = 90^\circ$$

$$\Rightarrow \angle BCD = 90^\circ$$

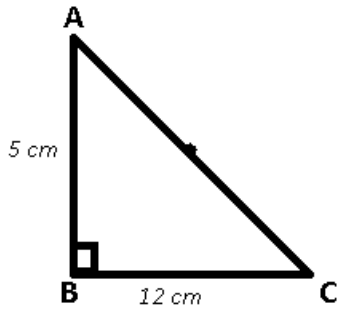
Question 135

In a right-angled triangle ABC, $\angle ABC = 90^\circ$, AB = 5 cm and BC = 12 cm. The radius of the circumcircle of the triangle ABC is

- A 7.5 cm
- B 6 cm
- C 6.5 cm
- D 7 cm

Answer: C

Explanation:



In $\triangle ABC$

$$\Rightarrow AC = \sqrt{(AB)^2 + (BC)^2}$$

$$\Rightarrow AC = \sqrt{5^2 + 12^2} = \sqrt{169}$$

$$\Rightarrow AC = 13 \text{ cm}$$

In a right angled triangle, circumcentre lies on the mid point of hypotenuse.

$$\Rightarrow \text{circumradius} = \frac{AC}{2} = \frac{13}{2} = 6.5 \text{ cm}$$

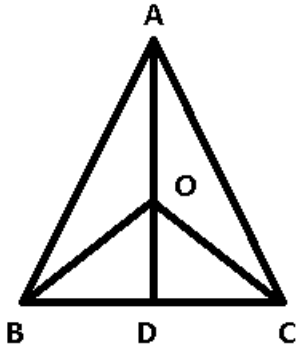
Question 136

If the circumradius of an equilateral triangle ABC be 8 cm, then the height of the triangle is

- A 16 cm
- B 6 cm
- C 8 cm
- D 12 cm

Answer: D

Explanation:



Let ABC be the equilateral triangle and O be the circumcentre. AO extended meet BC at D.

In an equilateral triangle, the centroid, orthocentre, incentre and circumcentre, all lie on the same point, => the median and height are the same lines.

=> O is also the centroid of the triangle.

Since, the centroid divides the median in the ratio 2 : 1

It is given that OA = 8 cm

=> Height AD = $8 \times \frac{3}{2} = 12$ cm

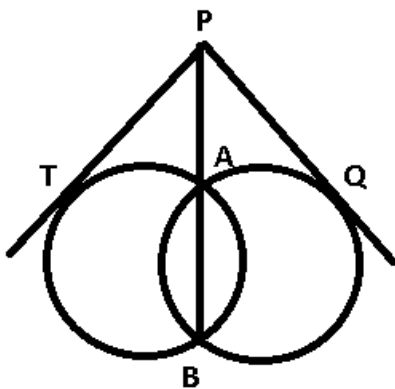
Question 137

Two circles intersect at A and B. P is a point on produced BA. PT and PQ are tangents to the circles. The relation of PT and PQ is

- A PT = 2PQ
- B PT < PQ
- C PT > PQ
- D PT = PQ

Answer: D

Explanation:



Using secant of a tangent property, we have

$$\Rightarrow PT^2 = PA \times PB$$

$$\text{and } PQ^2 = PA \times PB$$

$$\Rightarrow PT = PQ$$

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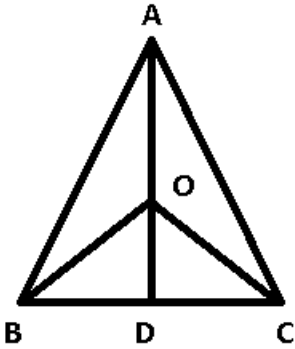
Question 138

If O is the circumcentre of triangle ABC and $OD \perp BC$, then $\angle BOD$ must be equal to

- A $\angle A$
- B $1/2 \angle A$
- C $1/2 \angle B$
- D $1/2 \angle C$

Answer: A

Explanation:



O is the circumcentre of the triangle ABC

$$\Rightarrow \angle BOC = 2\angle BAC$$

$$\text{Also, } \angle BOD = \frac{1}{2} \angle BOC$$

$$\therefore \angle BOD = \angle BAC$$

Question 139

The numerical value of $1 + \cot^2\theta + 1 + \tan^2\theta + 2\sin^2\theta$ is

- A 2
- B 5
- C 6
- D 3

Answer: D

Explanation:

$$\text{Expression : } 1 + \cot^2\theta + 1 + \tan^2\theta + 2\sin^2\theta$$

$$= 1 + \frac{1}{\sin^2\theta} + 1 + \frac{\sin^2\theta}{\cos^2\theta} + 2\sin^2\theta$$

$$= \frac{\sin^2\theta}{\cos^2\theta + \sin^2\theta} + \frac{3\cos^2\theta}{\cos^2\theta + \sin^2\theta} + 2\sin^2\theta$$

$$= \sin^2\theta + 3\cos^2\theta + 2\sin^2\theta$$

$$= 3(\cos^2\theta + \sin^2\theta) = 3$$

Question 140

The value of $1 + \tan^2\theta + 1 + \cot^2\theta + 3\sin^2\theta$

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

Answer: A

Explanation:

$$\text{Expression : } 1 + \cot^2\theta + 1 + \tan^2\theta + 3\sin^2\theta$$

$$= 1 + \frac{1}{\sin^2\theta} + 1 + \frac{4}{\cos^2\theta} + 3\sin^2\theta$$

$$= \frac{\sin^2\theta}{\cos^2\theta + \sin^2\theta} + \frac{4\cos^2\theta}{\cos^2\theta + \sin^2\theta} + 3\sin^2\theta$$

$$= \sin^2\theta + 4\cos^2\theta + 3\sin^2\theta$$

$$= 4(\cos^2\theta + \sin^2\theta) = 4$$

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Question 141

The value of $3(\sin x - \cos x)^4 + 6(\sin x + \cos x)^2 + 4(\sin^6 x + \cos^6 x)$ is

- A 14
- B 11
- C 12
- D 13

Answer: D

Explanation:

$$\text{Expression : } 3(\sin x - \cos x)^4 + 6(\sin x + \cos x)^2 + 4(\sin^6 x + \cos^6 x)$$

$$= 3(\sin x - \cos x)^2(\sin x - \cos x)^2 + 6(\sin^2 x + \cos^2 x + 2.\sin x.\cos x) + 4[(\sin^2 x)^3 + (\cos^2 x)^3]$$

$$= 3(\sin^2 x + \cos^2 x - 2.\sin x.\cos x)(\sin^2 x + \cos^2 x - 2.\sin x.\cos x) + 6(1 + 2.\sin x.\cos x) + 4[(\sin^2 x + \cos^2 x)(\sin^4 x + \cos^4 x - \sin^2 x.\cos^2 x)]$$

$$= 3(1 - 2.\sin x.\cos x)^2 + 6 + 12.\sin x.\cos x + 4[(\sin^2 x + \cos^2 x)^2 - 3.\sin^2 x.\cos^2 x]$$

$$= 3(1 + 4.\sin^2 x.\cos^2 x - 4.\sin x.\cos x) + 6 + 12.\sin x.\cos x + 4 - 12.\sin^2 x.\cos^2 x$$

$$= 3 + 12.\sin^2 x.\cos^2 x - 12.\sin x.\cos x + 6 + 12.\sin x.\cos x + 4 - 12.\sin^2 x.\cos^2 x$$

$$= 3 + 6 + 4 = 13$$

Question 142

The value of $\operatorname{cosec}\theta \sec\theta \left(\frac{1+\sin\theta}{\cos\theta} - \frac{\cos\theta}{1+\sin\theta} \right) - 2\tan^2\theta$

- A 4
- B 1
- C 2

D 0

Answer: C

Explanation:

$$\text{Expression : } \operatorname{cosec}\theta \operatorname{sec}\theta \left(\frac{1+\sin\theta}{\cos\theta} - \frac{\cos\theta}{1+\sin\theta} \right) - 2\tan^2\theta$$

$$= \operatorname{cosec}\theta \operatorname{sec}\theta \left(\frac{(1+\sin\theta)^2 - \cos^2\theta}{\cos\theta(1+\sin\theta)} \right) - 2\tan^2\theta$$

$$= \frac{1+\sin^2\theta+2\sin\theta-\cos^2\theta}{\cos^2\theta(\sin\theta+\sin^2\theta)} - 2\tan^2\theta$$

$$= \frac{2\sin^2\theta+2\sin\theta}{\cos^2\theta(\sin\theta+\sin^2\theta)} - 2\tan^2\theta$$

$$= \frac{2}{\cos^2\theta} - 2\tan^2\theta$$

$$= 2\sec^2\theta - 2\tan^2\theta$$

$$= 2(\sec^2\theta - \tan^2\theta) = 2 * 1 = 2$$

Question 143

If $\sin \theta + \operatorname{cosec} \theta = 2$ then the value of $\sin^5 \theta + \operatorname{cosec}^5 \theta$ is

A 1/2

B 1

C 0

D 2

Answer: D

Explanation:

$$\text{Expression : } \sin\theta + \operatorname{cosec}\theta = 2$$

$$\Rightarrow \sin\theta + \frac{1}{\sin\theta} = 2$$

$$\Rightarrow \sin^2\theta - 2\sin\theta + 1 = 0$$

$$\Rightarrow (\sin\theta - 1)^2 = 0$$

$$\Rightarrow \sin\theta = 1$$

$$\text{and } \operatorname{cosec}\theta = 1$$

$$\therefore \sin^5\theta + \operatorname{cosec}^5\theta = 1 + 1 = 2$$

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Instructions

Study the chart carefully and answer the questions.

The chart shows production of an item (in tonnes) during certain years

Question 144

The production in 2006-07 in comparison to the production in 2002-03 increased by

A 150%

B 110%

C 120%

D 125%

Answer: A

Question 145

The production decreased from 2004-05 to 2005-06 by 1

- A $11\frac{1}{9}\%$
- B $8\frac{1}{9}\%$
- C $9\frac{1}{9}\%$
- D $10\frac{1}{9}\%$

Answer: A

Question 146

The year in which production increased the lowest as compared to the previous year is

- A 2007 - 08
- B 2003 - 04
- C 2004 - 05
- D 2006 - 07

Answer: A

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Question 147

The production from 2003 - 04 to 2007 - 08 increased by

- A 125%
- B 50%
- C 75%
- D 100%

Answer: D

Instructions

The following bar diagram shows the percentage of Hindus, Sikhs and Muslims in a state during the years from 2004 to 2007. Examine the bar diagram and answer the following questions.

Question 148

The ratio between the Hindu and Sikh population in 2004 was

- A 3 : 5
- B 1 : 2
- C 2 : 3
- D 3 : 4

Answer: C

Question 149

If the total population of the state in 2004 was 5 lakhs, then the Hindu and Muslim population in that year was

- A 200000
- B 275000
- C 250000
- D 225000

Answer: B

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Question 150

If the total population of the state in 2005 was 5 million, then the Hindu population was [1 million = 10,00,000]

- A 2000000
- B 1250000
- C 1500000
- D 1750000

Answer: D

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Reasoning

Instructions

In each of the following questions, select the related letters/ word/ number from the given alternatives.

Question 151

Wine : Grape :: Whiskey : ?

- A Orange
- B Potato
- C Oats
- D Apple

Answer: C

Explanation:

Wine is made from grapes, similarly whiskey is made from oats.

=> Ans - (C)

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Question 152

600 : 2000 :: ? : 9000

- A 3000
- B 3600
- C 5400
- D 5600

Answer: D

Explanation:

Expression = 600 : 2000 :: ? : 9000

The pattern followed is = $(20 \times 30) : (40 \times 50) :: (x) : (90 \times 100)$

Following above pattern, we have $x = 70 \times 80 = 5600$

=> Ans - (D)

Question 153

XZG : CAT :: DOG : ?

- A TIW
- B GAD
- C OWT
- D WLT

Answer: D

Explanation:

Expression = XZG : CAT

The letters are coded in reverse alphabetical order.

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
↓	↓	↓	...	↓	↓	↓	...	↓	↓	↓	...	↓	↓	↓	...	↓	↓	↓	...	↓	↓	↓	...	↓	↓
Z	Y	X	W	V	U	T	S	R	Q	P	O	N	M	L	K	J	I	H	G	F	E	D	C	B	A

Similarly, DOG : WLT

=> Ans - (D)

Instructions

In each of the following questions, which one set of letters when sequentially placed at the gaps in the given letter series shall complete it ?

Question 154

_aabab_ab_ab_bba

- A bbaa
- B baaa
- C abaa

D abba

Answer: A

Explanation:

If we place the letters of option A sequentially in the blank spaces it follows the pattern

baab,abba,baab,abba

Hence option A is correct

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Question 155

aa_baa__aaa_ba_ba

A abba

B abab

C abaa

D babb

Answer: A

Explanation:

If we place the the letters of option A sequentially in the blank spaces the given series formed follows the pattern

aabb,aaba,aabb,aaba

Thus option A is correct

Instructions

In each of the following questions, a series is given, with one term missing. Choose the correct alternative from the given ones that will complete the series.

Question 156

C2E, E5H, G12K, I27N, ?

A I58P

B J58Q

C K58Q

D 157Q

Answer: C

Explanation:

In the given series the first letter of each term is moved 2 steps forward to get the the first letter of next term

the last letter of each term is moved 3 steps forward to get the the last letter of next term

whereas the numeric series follows the pattern

2

$$2 \times 2 + 1 = 5$$

$$5 \times 2 + 2 = 12$$

$$12 \times 2 + 3 = 27$$

$$27 \times 2 + 4 = 58$$

So the next term is K58Q

Question 157

BEH, DGJ, NQT, ?

- A 111
- B GHD
- C JMP
- D RMO

Answer: C

Explanation:

In each term of the given series the second letter of each term is obtained by moving first letter of each term 3 steps forward, similarly the third letter of each term is obtained by moving second letter of each term three steps forward. Among the given options only option C satisfies the given criteria hence option C is correct.

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Question 158

$ZA_5, Y_4B, XC_6, W_3D, ?$

- A VE_7
- B E_7V
- C V_2E
- D VE_5

Answer: A

Explanation:

In the given series the first letter follows the reverse alphabetical series and the other letter follows alphabetical series. The numbers are alternating the places between extreme right and middle place in which the middle place numbers are decreasing by 1 and extreme right placed numbers are increasing by 1. So the next term of the series should be VE_7 .

Question 159

deb, ijg, nol, ? , xyv

- A stq
- B rsp
- C rsq
- D stp

Answer: A

Explanation:

In the given series each letter of the next term is obtained by moving each corresponding letter of previous term five steps forward.
deb
 $d + 5, e + 5, b + 5 = ijg$

i +5 , j+5,g+5 = nol
n +5, o +5 , l+5 =stq
s+5,t+5,q+5 = xyv

Instructions

In each of the following questions, find the odd word/number pair from the given alternatives.

Question 160

- A 543, 453
- B 243, 432
- C 234, 342
- D 354, 543

Answer: A

Explanation:

In all the options but for the first, the position of all the numbers is changed. In the first option, position of 3 is unchanged.

=> Ans - (A)

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Question 161

- A Vedanthangal
- B Bandipur
- C Mudumalai
- D Thekkady

Answer: D

Explanation:

Vedanthangal, Bandipur and Mudumalai are National Parks or Wildlife Sanctuaries. Bandipur National Park is situated in Mysore, Karriataka. Mudumalai Wildlife Sanctumy and Vedantharigal Bird Sanctuaries are located in Tamil Nadu.

=> Ans - (D)

Question 162

- A Internet Explorer
- B Chrome
- C Google
- D Firefox

Answer: C

Explanation:

Google is a search engine while all others are web browsers.

=> Ans - (C)

Question 163

- A Opponent

- B Adversary
- C Ally
- D Antagonist

Answer: C

Explanation:

Ally is different from the other three words. Opponent, adversary and antagonist are synonyms meaning opponent.

=> Ans - (C)

General Science Notes for SSC CGL

Question 164

- A Pentagon
- B Circle
- C Rhombus
- D Diagonal

Answer: D

Explanation:

Diagonal is a part of geometrical figure. All others are plane figures.

=> Ans - (D)

Instructions

For the following questions answer them individually

Question 165

Find the correct set of numbers from the given alternatives.

(4, 3, 2), (16, 9, 4), (256, 81, 16), (65536, ?, ?)

- A 6651, 286
- B 6561, 256
- C 1486, 97
- D 190, 20

Answer: B

Explanation:

In the given series each element of the next term is obtained by squaring the corresponding element of each previous term
So

the missing second and third value from the last term is

$81^2 = 6561$ and

$16^2 = 256$

respectively

Instructions

In each of the following questions, select the missing number from the given responses.

Question 166

16 32 48 64
17 34 51 68
18 36 54 ?

- A 77
- B 72
- C 74
- D 76

Answer: B

Explanation:

The second ,third and fourth term of each row of the given matrix is obtained by multiplying first term of each row by 2,3 and 4 respectively

So

$$? = 18 \times 4 = 72$$

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Question 167

2311, 4529, ?, 8989

- A 7243
- B 6353
- C 5662
- D 6755

Answer: D

Explanation:

The Series follows the pattern

2311

$$2311 + 2218 = 4529$$

$$4529 + 2218 + 8 = 6755$$

$$6755 + 2218 + 8 + 8 = 8989$$

Question 168

21, 30, 38, ?, 51, 56, 60

- A 80
- B 35
- C 55
- D 45

Answer: D

Explanation:

The Series follows the pattern

21

21+9 =30
30+8 =38
38 +7 =45
45 +6 =51
51 +5 =56
56 +4 =60

Question 169

6, 14, 30, ?

- A 54
- B 29
- C 27
- D 33

Answer: A

Explanation:

The Series follows the pattern

6

$$6 + 8 \times 1 = 14$$

$$14 + 8 \times 2 = 30$$

$$30 + 8 \times 3 = 54$$

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Question 170

**4 5 10
362 492 ? 2**

- A 144
- B 55
- C 100
- D 64

Answer: A

Question 171

**5 1 25
6 2 18
10 4 25
3 3 ?**

- A 10
- B 9
- C 3
- D 4

Answer: C

Explanation:

Each row of the given matrix follows the pattern

$$5^2/1 = 25$$

$$6^2/2 = 18$$

$$10^2/4 = 25$$

$$3^2/3 = 3$$

Instructions

For the following questions answer them individually

Question 172

Six girls are standing in such a way that they form a circle, facing the centre. Subbu is to the left of Pappu, Revathi is between Subbu and Nisha, Aruna is between Pappu and Keerthana. Who is to the left of Pappu ?

- A Subbu
- B Keerthana
- C Nisha
- D Aruna

Answer: A

Explanation:

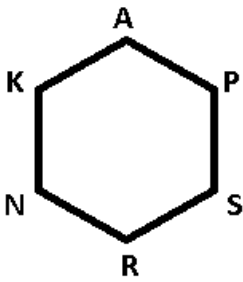
Subbu is to the left of Pappu and Revathi is between Subbu and Nisha.

=> Subbu is to the immediate right of Revathi which means Nisha is to the immediate left of Revathi.

Also, Aruna is between Pappu and Keerthana.

Let the first letter of their name represents the girls.

The above arrangement will be :



Clearly, Subbu is to the left of Pappu.

Ans - (A)

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Question 173

Naseebah runs for 10 km in the eastern direction. She then turns left and starts walking for 6 km. Again, she turns left and starts running for 6 km. Then she turns left and walks again for 6 km. How far is she from the starting point ?

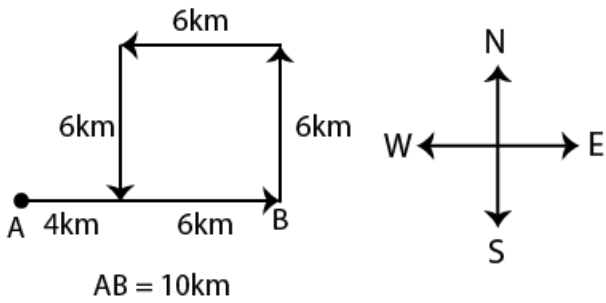
- A 4 km
- B 5 km
- C 6 km

D 3 km

Answer: A

Explanation:

For the above information, Naseebah's route can be traced as follows:



we can see she is 4km east of her starting point.

the correct answer is option A.

Question 174

In the following problem,

= stands for \div

+ stands for -

\times stands for =

- stands for >

> stands for +

< stands for \times

\div stands for <

When these new symbols are substituted, only one will be wrong. Identify the wrong one.

A $4 < 2 + 5 + 8 \times 5$

B $4 = 2 + 5 > 8 \times 5$

C $4 < 2 > 5 + 8 \times 5$

D $4 > 2 < 5 + 8 - 5$

Answer: A

Explanation:

For the given pattern, let us check option wise:

option A: $4 < 2 + 5 + 8 \times 5$ this will be equal to $4 * 2 - 5 - 8 = -5$ which is not true as $4 * 2 - 5 - 8 = -5$. hence the correct answer is option A.

Instructions

In each of the following questions, from the given alternative words, select the word which cannot be formed using the letters of the given word.

Question 175

TENDENTIOUS

A INTENTION

B DENTIST

C TENT

D STUDENT

Answer: A

Explanation:

From the letters of the word TENDENTIOUS, all the words except INTENTION can be formed as there are 2Ns in TENDENTIOUS as opposed to 3 required in INTENTION. Hence the correct answer is option A.

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Question 176

INTERNATIONAL

- A ORIENTAL
- B RATIONALE
- C LATTER
- D TERMINAL

Answer: D

Explanation:

From the letters of the word INTERNATIONAL, all the words except TERMINAL can be formed as there is no M in INTERNATIONAL. Hence the correct answer is option D.

Question 177

DEPRECIATE

- A PEACE
- B REPRIEVE
- C CREDIT
- D PRIDE

Answer: B

Explanation:

from the letters of the word DEPRECIATE, all the words except REPRIEVE can be formed as there is only single R in DEPRECIATE, whereas there are two in REPRIEVE. hence the correct answer is option B.

Instructions

For the following questions answer them individually

Question 178

Select the correct combination of mathematical signs to replace * signs and to balance the given equation. $8 * 6 * 96 * 2 = 0$

- A $\times \div -$
- B $\times - \div$
- C $- \times \div$
- D $\div - \times$

Answer: B

Explanation:

The given equation is : $8 * 6 * 96 * 2 = 0$

(A) : $\times \div - : 8 \times 6 / 96 - 2 = -1.5$

(B) : $x \div : 8 \times 6 - 96 / 2 = 0$

(C) : $-x \div : 8 - 6 \times 96 / 2 = -280$

(D) : $\div - x : 8 / 6 - 96 \times 2 = -190.67$

=> Ans - (B)

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Question 179

If P denotes +, Q denotes \times , R denotes \div and S denotes $-$, then $12 Q 15 P 3 R 4 S 6 = ?$

A 70

B 57

C 58

D 68

Answer: C

Explanation:

Expression : $12 Q 15 P 3 R 4 S 6 = ?$

$$\equiv 12 \times 15 \div 3 + 4 - 6$$

$$= 12 \times 5 - 2$$

$$= 60 - 2 = 58$$

=> Ans - (C)

Question 180

You have to follow the symbolic interpretation to solve the question.

+ = Greater than

\times = Equal to

- = Not less than

L = Not equal to

| = Less than

Φ = Not greater than

Then if $A - B \Phi C$, which of the following is implied ?

A $A | B + C$

B $A | B | C$

C $A + B - C$

D $A \Phi B | C$

Answer: C

Explanation:

For the above given representations, $A - B \Phi C$ will translate to $A \geq B \leq C$.

now looking at option C, that is, $A + B - C$, it will translate to $A > B \geq C$.

hence all other options except option C don't satisfy the condition. therefore, the correct answer is option C.

Question 181

If A stands for +, Q stands for -, V stands for ×, R stands for ÷, then what is the value of the given equation ?
225 R 5 A 64 Q 13 V 6=?

- A 376
- B 31
- C 476
- D 576

Answer: B

Explanation:

If A stands for +, Q stands for -, V stands for ×, R stands for ÷, then the value of the given equation 225 R 5 A 64 Q 13 V 6 will be $225 \div 5 + 64 - 13 \times 6$. which on applying the principles of BODMAS, the value of which comes out to be 31. hence the correct answer is option B.

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Question 182

If each of the letters in the English alphabet is assigned an even numerical value beginning A = 2, B = 4 and so on, what will be the total value of the letters for the word INDIA?

- A 72
- B 86
- C 74
- D 94

Answer: C

Explanation:

If each of the letters in the English alphabet is assigned an even numerical value beginning A = 2, B = 4 and so on, then INDIA will total to:

I=18, N=28, D=8, I=18, A=2.

$18+28+18+8+2=74$. hence the correct answer is option C.

Question 183

If 'STYLE' is written as PQVIB, how can 'SMELL' be written in that code ?

- A PJBII
- B PVBII
- C PVHII
- D PJHII

Answer: A

Explanation:

If 'STYLE' is written as PQVIB, it can be observed that each letter be represented by the letter that comes 3 places before it in the Alphabet, i.e.

- P
- Q
- R

S... we can see that S is represented by P and so on. similarly, SMELL can be represented by PJBII. which is option A.

Question 184

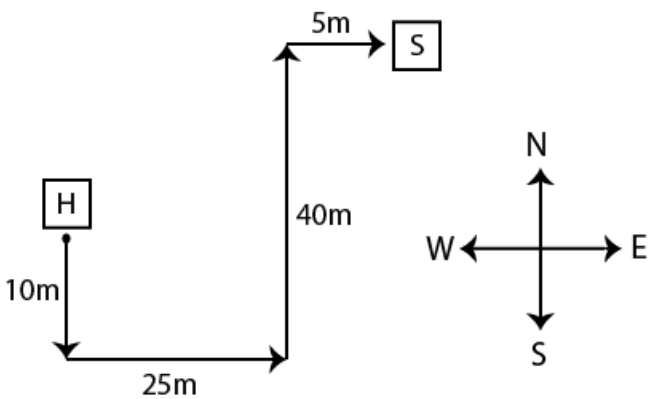
Ram walks 10 m South from his house, turns left and walks 25 m, again turns left and walks 40 m, then turns right and walks 5 m to reach the school. In which direction is the school from his house ?

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

Answer: C

Explanation:

the direction of his school from his house can be traced as shown. hence the correct answer is North-East that is, option C.



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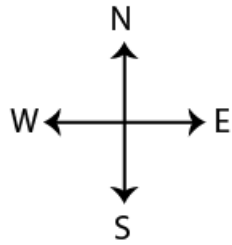
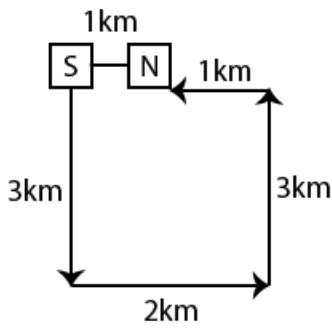
Question 185

A boy was misdirected from his way while returning to his home from his school. In order to reach his home, he first moved 3 km in south direction and then turned to his left and moved 2 km in straight direction on the road leading to the east. From there, he moved to his left and walked 3 km. After this, he again turned to his left and moved 1 km. Finally he reached his home. The home of the boy was in which direction from his school ?

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

Answer: D

Explanation:



his home(H) is 1km east from his school(S). the correct answer is option D.

Question 186

If SENT is written as '+ Λ x -' and ANT is written as '* x -' then how is TEN written in that code ?

- A x + -
- B _ Λ x
- C * - x
- D - x Λ

Answer: B

Explanation:

If SENT is written as '+ Λ x -' and ANT is written as '* x -' therefore we can infer that the pair of letters NT will be represented by 'x -'. hence it can be inferred that E will be represented by '_ Λ'. therefore TEN will be represented by "_ Λ x'" hence the correct answer is option B.

Instructions

In each of the following questions, a statement is given followed by two conclusions/ assumptions. You have to consider the statement to be true even if it seems to be at variance from commonly known facts. You have to decide which of the given conclusions/ assumptions, if any, follow from the given statement.

Question 187

Statement : If people are intelligent they should be creative.

Assumptions :

- I. Creativity and intelligence are related.
- II. Creative people are intelligent.

- A Both assumptions I and II are invalid.
- B Only assumption I is valid
- C Only assumption II is valid
- D Both assumptions I and II are valid.

Answer: B

Explanation:

The given statement indicates that intelligent people should be creative, which does not mean that creative people are intelligent (reverse of the given statement), but it shows the relation between intelligence and creativity.

Thus, only assumption I is valid.

=> Ans - (B)

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Question 188

Statement : A friend in need is a friend indeed.

Conclusions :

I. All are friends in good times.

II. Enemies in bad times are not friends.

- A Neither Conclusion I nor II follows.
- B Only Conclusion 1 follows.
- C Only Conclusion H follows.
- D Both Conclusions I and II follow.

Answer: A

Explanation:

The statement indicates that if a friend is there for you, then he is a true friend, which neither means that all are friends in good times nor it means that people in bad times are not friends.

Thus, neither Conclusion I nor II follows.

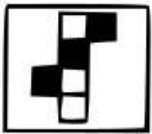
=> Ans - (A)

Instructions

For the following questions answer them individually

Question 189

Which of the four cubes given in the answer figure can be created by folding the design in question figure ?

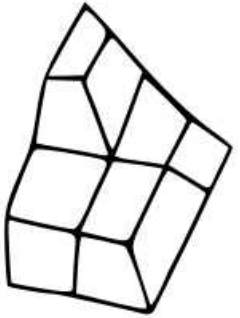


- A
- B
- C
- D

Answer: B

Question 190

The figure below is a drawing of a pile of blocks. When taken apart, how many blocks would be there ?



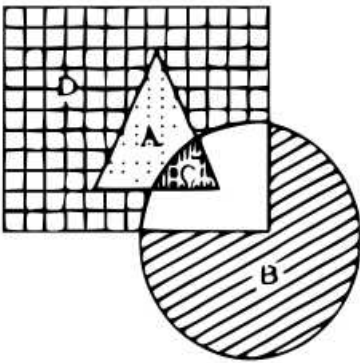
- A 6
- B 3
- C 4
- D 5

Answer: A

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Question 191

In the following diagram, the triangle represents Mothers, circle represents Teachers and the rectangle stands for Women. Which letter (out of A, B, C and D) represents women who are mothers as also teachers ?



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

Answer: C

Explanation:

In the above diagram :

Triangle represents Mothers

Circle represents Teachers

Rectangle stands for Women

So, women who are both mothers and teachers, we need to find the area which consist of triangles, circles and rectangles.

Clearly 'C' represents such area.

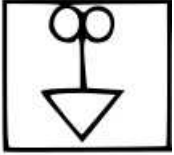
Ans - (C)

Question 192

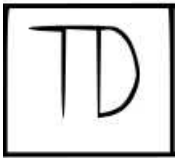
Which of the answer figures is not made up of only the components of the key figure



A



B



C



D



Answer: A

Explanation:

In the given figure, only one circle and the only triangles needed is a right angled triangle.

Clearly option (A) violates above rules.

Ans - (A)

Question 193

Which one of the following diagrams represents the correct relationship among Poison, Bio-products and Food ?

A



B





Answer: B

Explanation:

Bio products can include food because this term is also related to agriculture. But all bio products are not food because it also includes making of fossil fuels, papers etc. We can also make different type of poison by using various bio products.

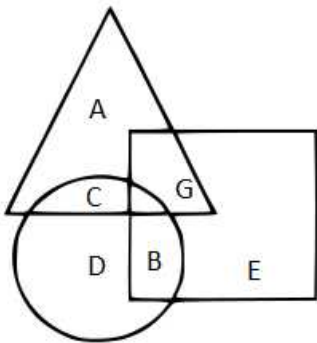
So, some bio products can be poison and some can be food.

Ans - (B)

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Question 194

In the given figure the triangle represents people who visited Mysore; the circle represents people who visited Ooty, the square represents people who visited Munnar. The portion which represents people who visited both Mysore and Ooty is



A D

B G

C B

D C

Answer: D

Explanation:

Triangle represents the people who visited Mysore

Circle represents people who visited Ooty

To find the portion which represents people who visited both Mysore and Ooty :

Clearly, 'C' is part of both triangle and circle, => 'C' represents people who visited both places.

Ans - (D)

Instructions

In the following questions, which answer figure will complete the pattern in the question figure.

Question 195

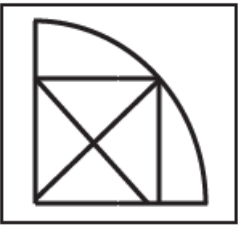
Find out which answer figures will exactly make up the question figure ?



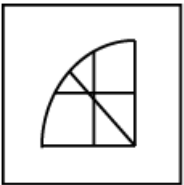
A



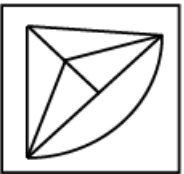
B



C



D



Answer: D

Question 196



A





Answer: B

Explanation:

To complete the above figure, we need a bottom left quadrant of a circle.

=> (A) & (C) are eliminated.

Now, in the top right of the quadrant, we need 2 curved lines which is seen in option (B)

Ans - (B)

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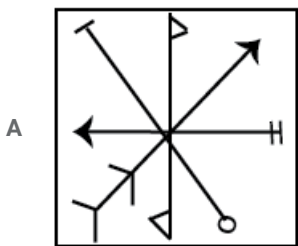
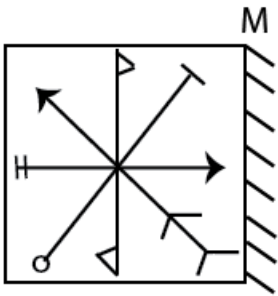
Instructions

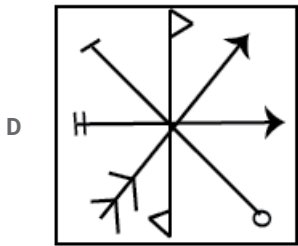
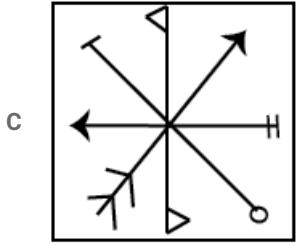
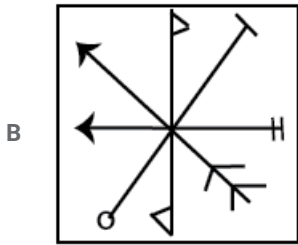
For the following questions answer them individually

Question 197

From the answer figures, find out the figure which is the exact mirror image of the question figure, when the mirror is placed on the line 'MN'.

Question Figure :





Answer: C

Explanation:

As seen from the middle point, the 8 lines originating are at equal intervals

=> (A) is eliminated

The diagonal arrow is facing top left, thus in the mirror it will face top right.

=> (B) is eliminated.

Now, if we look at the vertical line, the top triangle is facing east and the bottom one is facing west, => in the mirror the top will face west and the bottom will face east

=> (D) is eliminated

Ans - (C)

Question 198

A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as in the matrix given below. Identify the set for the word 'SNOW'.

	1	2	3	4	5	6
1	H	R	E	I	P	S
2	S	G	N	D	Z	J
3	B	U	F	T	K	L
4	U	A	P	C	Y	A
5	M	W	C	O	X	N
6	B	A	E	I	L	O

A 21, 14, 22, 56

B 21, 56, 62, 44

C 16, 56, 46, 35

D 21, 23, 54, 52

Answer: D

Explanation:

(A) - 21, 14, 22, 56 = SIGN

(B) - 21, 56, 62, 44 = SNAC

(C) - 16, 56, 46, 35 = SNAK

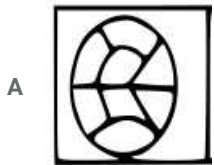
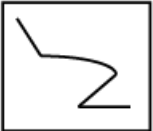
(D) - 21, 23, 54, 52 = **SNOW**

=> Ans - (D)

Question 199

From the given answer figures, select the one in which the question figure is hidden/embedded.

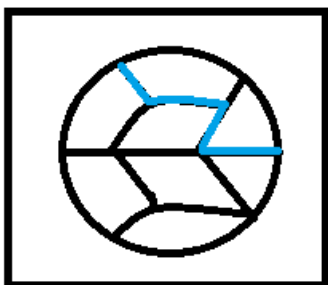
Question Figure :



Answer: A

Explanation:

If we look carefully at the first figure, we find :



The question figure is embedded in the form of blue shaded lines, which is not seen in the other figures.

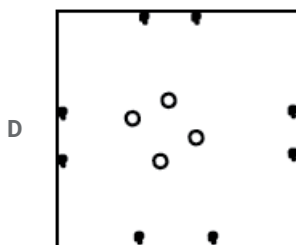
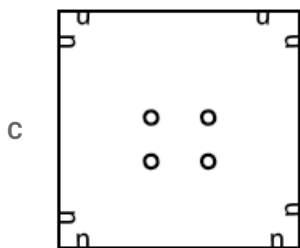
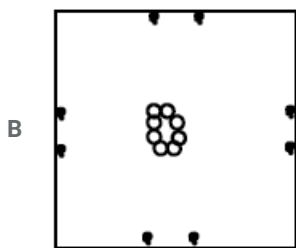
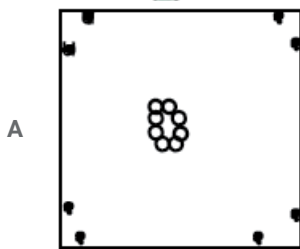
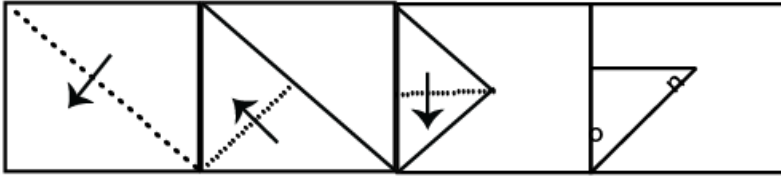
Ans - (A)

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Question 200

A piece of paper is folded and punched as shown below in the question figures. From the given answer figures, indicate how it will appear when opened.

Question Figure :



Answer: C

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