



SSC CGL 2014 Tier 1 27 April shift 8

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General Awareness

Instructions

For the following questions answer them individually

Question 1

In India, the interest rate on savings accounts in all the nationalized commercial banks is fixed by

- A Finance Minister of India
- B Union Finance Commission
- C Indian Bank Association
- D Reserve Bank of India

Answer: B

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Question 2

Pegging up of a currency means, fixing the value of a currency

- A at a constant level
- B at a lower level
- C at a higher level
- D leaving it to market forces

Answer: A

Question 3

The Oilseeds Production Programme (OPP) was launched in

- A 1986
- B 1987
- C 1988
- D 1990

Answer: A

Question 4

Plan Holiday was declared after

- A The First Five Year Plan
- B The Second Five Year Plan
- C The Third Five Year Plan
- D The Fourth Five Year Plan

Answer: C

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Question 5

Which of the following pair is wrongly matched ?

- A Plato - Republic
- B Aristotle - Politics
- C Pundit Jawaharlal Nehru Hind Swaraj
- D Karl Marx - Das Kapital

Answer: C

Question 6

The concept of "Rule of Law" is a special feature of constitutional system of

- A Britain
- B U.S.A.
- C France
- D Switzerland

Answer: A

Question 7

Which of the following is not helpful in controlling money supply ?

- A Free market policy
- B CRR
- C Bank Rate
- D Change in margin requirement

Answer: A

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Question 8

Usually a big difference is seen in theory and practice in

- A Presidential form of Government
- B Fascist type of Government
- C Parliamentary form of Government
- D Socialist type of Government

Answer: D

Question 9

Comptroller and Auditor General of India acts as a friend, Philosopher and Guide for.

- A Public Accounts Committee
- B Estimates Committee
- C Finance Ministry
- D Committee on Public Undertakings

Answer: A

Question 10

How liberty can be limited ?

- A By Rule
- B By Law
- C By Authority
- D By Equality

Answer: B

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Question 11

The first meeting of the Indian National Congress held in 1885 was presided by

- A Shri P.M. Mehta
- B Shri Womesh Chandra Bannerjee
- C D.E. Wacha
- D S.N. Bannerjee

Answer: B

Question 12

Which one of the following tribal assemblies was normally involved in the election of the tribal chief ?

- A Samiti
- B Sabha
- C Gana
- D Vidata

Answer: A

Question 13

During which of the following periods of Indian History did the Kshatriyas have a distinct identity ?

- A Age of the Buddha
- B Maurya period
- C Post-Maurya age
- D Gupta period

Answer: A

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Question 14

The Gandhi's 'Dandi March' was a part of

- A Non-Cooperation Movement
- B Home Rule League
- C Civil Disobedience Movement
- D Quit India Movement

Answer: C

Question 15

A writ is issued by

- A a High Court
- B a Sub Court
- C a District Court
- D an Administrative Tribunal

Answer: A

Question 16

Growth rate of population means

- A The difference of growth between male and female.
- B The difference in population between urban and rural area.
- C The number of births per thousand people.
- D The difference between birth and death rates.

Answer: D

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Question 17

Relative humidity is expressed as

- A Grams
- B Kilograms
- C Percentage
- D Ratio

Answer: C

Question 18

Metamorphism changes rocks'

- A structure
- B texture
- C both (1) and (2)
- D actual chemical composition

Answer: C

Question 19

The region famous for many kinds of wine and champagne is

- A Eastern Europe
- B Western Europe
- C Mediterranean
- D Glassland

Answer: C

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Question 20

Crossing-over occurs during

- A Leptotene
- B Zygotene
- C Pachytene
- D Diplotene

Answer: C

Question 21

In which of the following multiple epidermis is found ?

- A Boerhaavia
- B Amaranthus
- C Helianthus
- D Nerium

Answer: D

Question 22

Blood cancer is commonly known as

- A Leucoderma
- B Leukaemia
- C Haemophilia
- D Sickle-cell anaemia

Answer: B

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Question 23

The first stable product of photosynthesis is

- A Starch
- B Sucrose
- C Phosphoglyceric acid
- D Glucose

Answer: C

Question 24

pH scale ranges from

- A 0-7
- B 8-14
- C 0-14
- D None

Answer: C

Question 25

Slash and burn agriculture is known as 'Milpa' in

- A Venezuela
- B Brazil

- C Central Africa
- D Mexico and Central America

Answer: D

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Question 26

A real gas can act as an ideal gas in

- A high pressure and low temperature
- B low pressure and high temperature
- C high pressure and high temperature
- D low pressure and low temperature

Answer: B

Question 27

According to special theory of relativity the mass of a particle

- A increases with increase in velocity with respect to an observer.
- B decreases with increase in velocity.
- C decreases with decrease in velocity.
- D is independent of its velocity.

Answer: A

Question 28

The motion of the wheels of a bullock-cart while moving on the road is an example of

- A Oscillatory and rotatory motion
- B Oscillatory and translatory motion
- C Translatory and rotatory motion
- D Translatory motion only

Answer: C

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Question 29

Endoscope is an instrument used to detect the ulcers in the stomach has a long narrow tube (with a small glowing bulb at one end) which is inserted in to the stomach through the mouth contains.

- A small current carrying wire
- B a narrow tube containing water

- C optical fibre
- D a narrow tube containing some chemical solution

Answer: C

Question 30

The 'IBM-DOS' is a

- A Single user operating system
- B Multiuser operating system
- C Batch operating system
- D Time-sharing operating system

Answer: A

Question 31

The new technology which is emerging in the field of computer is

- A IC-technology
- B Parallel processing system
- C Semiconductor technology
- D Transistor technology

Answer: D

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Question 32

Iron rusts quickly in

- A Rain water
- B Sea water
- C Distilled water
- D River water

Answer: B

Question 33

When a single gene controls the expression of more than one character, it is said to be

- A Heterotrophic
- B Autotrophic
- C Allotropic
- D Pleiotropic

Answer: D

Question 34

Aerated water contains

- A SO
- B NO
- C H
- D CO

Answer: D

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Question 35

Chemical formula of Magnetite is

- A Fe s
- B FeO
- C FeCO
- D $2\text{FeO} \cdot 3\text{H}_2\text{O}$

Answer: B

Question 36

United Nations' appreciation for better management of cyclone, Phalin was awarded in 2014 to the government of

- A West Bengal
- B Andhra Pradesh
- C Andaman & Nicobar
- D Odisha

Answer: D

Question 37

The Ministry sometimes referred to as "Green Ministry" in India is Ministry of

- A Agriculture and Rural Development
- B Environment and Forests
- C Surface and Transport
- D Urban Development and Landscaping

Answer: B

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Question 38

The plants which grow well, only in light are known as

- A Sciophilous
- B Xerophytes
- C Heliophytes
- D Epiphytes

Answer: C

Question 39

Anna Jangal Yojna (my forest scheme) a bid to enhance forest cover in the State was launched in

- A Odisha
- B Chhattisgarh
- C Jharkhand
- D Assam

Answer: A

Question 40

A book entitled, 'The Stories of Malgudi Days' was written by

- A K.R. Narayanan
- B R.K. Narayan
- C P.M. Bajpai
- D Abul Kalam

Answer: B

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Question 41

"Ranji Trophy" is given to the sports persons in

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

Answer: C

Question 42

Anti-Sexual Harassment Law (Prevention, Prohibition and Redressal) Act, 2013 came into force in India to protect.

- A Women at workplace
- B Transgenders (male)
- C Child abuse
- D Live-in-partners

Answer: A

Question 43

Iron is prevented from rusting by coating with zinc. This process is called as

- A Galvanisation
- B Corrosion
- C Sublimation
- D Reduction

Answer: A

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Question 44

Special status to Jammu and Kashmir is given by the Indian Constitution under the article

- A 364
- B 368
- C 370
- D 377

Answer: C

Question 45

Where the Central Food Technology and Research Institute (CFTRI) is located ?

- A Chennai
- B Mysore
- C Hyderabad
- D Bangalore

Answer: B

Question 46

The study of Drugs and their action is known as

- A Pharmacy
- B Palaeozoology
- C Pharmacology
- D Palaeontology

Answer: C

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Question 47

Food crops comprise.

- A Cotton, Tobacco, Sugarcane
- B Linseed, Castor, Turmeric
- C Foodgrains, Pulses, Edible oilseeds
- D Jute, Cotton, Chillies

Answer: C

Question 48

The first Five Year Plan of the Government of India was based on

- A Leontief input-output model
- B Harrod-Domar model
- C Mahalanobis two-sector model
- D Mahalanobis four-sector model

Answer: B

Question 49

Which of the followings is not correct ?

- A PIL - Public Induced Litigation
- B CNG - Compressed Natural Gas
- C SIT - Special Investigation Team
- D KYC - Know Your Customer

Answer: A

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Question 50

Find the incorrect match among the

- A Sir Syed Murtza Khan Aligarh Muslim University
- B Dr. B.R. Ambedkar Ambedkar University
- C Pt. Jawaharlal Nehru Jawaharlal Nehru University
- D Madan Mohan Malviya - Banaras Hindu University

Answer: A

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English

Instructions

In the following questions, some of the sentences have errors and some have none. Find out which part of a sentence has an error. The number of that part is your answer. If there is no error, your answer is (4) i.e., No error.

Question 51

Part of the research program (1)/ involved interviewing teenagers (2)/ in innercity areas. (3)/ No error (4).

- A Part of the research program
- B involved interviewing teenagers
- C in innercity areas
- D No error

Answer: B

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Question 52

I could not put up at a hotel (1)/ because the board and lodging charges (2)/ were too expensive.(3) /No error (4).

- A I could not put up at a hotel
- B because the board and lodging charges
- C were too expensive
- D No error

Answer: D

Question 53

Much harassed (1)/ he left hostel (2)/ bag and baggage. (3)/ No error (4).

- A Much harassed
- B he left hostel
- C bag and baggage

D No error

Answer: A

Question 54

The young man (1)/ was surprised (2)/ perhaps a shade scandalized. (3)/ No error

A The young man

B was surprised

C perhaps a shade scandalized

D No error

Answer: D

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Question 55

Every boy and every girl (1)/ were given (2)/ a packet of sweets. (3)/ No error (4)

A Every boy and every girl

B were given

C a packet of sweets

D No error

Answer: B

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 as your answer

Question 56

She heard the..... of the hinges.

A rattling

B rustling

C crashing

D creaking

Answer: D

Question 57

The sound effectsby the recording director.

A are provided

B being provide

C been provided

D provided

Answer: A

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Question 58

Theof cotton is very heavy.

A bald

B bail

C bale

D band

Answer: C

Question 59

The principal has given his..... to the match.

A except

B ascent

C refuse

D assent

Answer: D

Question 60

The hunter killed two..... for dinner.

A flour

B fowl

C foul

D fool

Answer: B

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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 as your answer.

Question 61

Honest

A authentic

B upright

C direct

D actual

Answer: B

Question 62

Vocation

A examination

B seminar

C occupation

D holiday

Answer: C

Question 63

Cantankerous

A noisy

B quarrelsome

C rash

D disrespectful

Answer: B

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Instructions

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

Question 64

Fragility

A gaiety

B prodigality

C captivity

D enmity

Answer: B

Question 65

Humane

A unkind

B living being

C person

D man

Answer: A

Question 66

Miserable

A solitary

B happy

C active

D laudable

Answer: B

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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

If you read between the lines, you will appreciate what he writes.

A can read leaving lines in between

B can read a lot quicker

C know what the writer thinks

D can read and write in the language

Answer: C

Question 68

To throw dust in one's eyes.

A to harm someone

B to deceive

C to show false things

D to make blind

Answer: B

Question 69

He is a cut above all the other boys in the group.

A quite taller than

B more active than

C a little rougher than

D rather superior to

Answer: D

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Question 70

As soon as the police arrived, the bank robbers showed the white flag.

- A calmly left the scene
- B surrendered
- C ran away
- D were incensed

Answer: B

Question 71

To cut one short.

- A to love one
- B to insult one
- C to criticise one
- D to interrupt one

Answer: C

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 (1), (2) and (3) which may improve the sentence. Choose the correct alternative. In case no improvement is needed, your answer is (4).

Question 72

The student's interest was raised by an article he had read.

- A quickened
- B multiplied
- C increased
- D No improvement

Answer: B

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Question 73

This telephone number is not existing.

- A has not existed

- B has not been existing
- C does not exist
- D No improvement

Answer: C

Question 74

Would it be impertinent to ask why you are leaving ?

- A if asking why you are leave
- B for asking why you are leave
- C to asking why you are leave
- D No improvement

Answer: D

Question 75

We have to know that we can achieve things slowly and gradually, not overnight.

- A would know that
- B had to know that
- C must know that
- D No improvement

Answer: C

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Question 76

Rajesh's ability to use the local language surprised me.

- A knowing of
- B confidence with
- C familiarity with
- D No improvement

Answer: C

Question 77

I usually did not take sugar in my tea.

- A do not take
- B do not takes
- C have not taken

D No improvement

Answer: B

Question 78

Unless they modify the system, our future generations will suffer.

A Unless the system is modified

B Unless the system will be modified

C If the system will not be modified

D No improvement

Answer: A

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Question 79

We did not see this movie yet.

A never seen

B have not seen

C never have seen

D No improvement

Answer: B

Question 80

The sight of the lizard is hateful to me.

A repulsion

B repulsive

C repulse

D No improvement

Answer: B

Question 81

During his long discourse, he did not touch the central idea of the topic.

A touch

B touch on

C touch upon

D No improvement

Answer: D

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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/sentences.

Question 82

The practise of having many wives.

- A bigamy
- B calligraphy
- C polygamy
- D polyandry

Answer: C

Question 83

Take great pleasure.

- A revel
- B satisfied
- C uphold
- D overhaul

Answer: A

Question 84

A strong dislike.

- A reciprocity
- B entreaty
- C animosity
- D malice

Answer: C

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Question 85

A frog lives both on land as well as in water.

- A animate
- B amphibian
- C aquatic
- D ambidexterous

Answer: B

Question 86

The Mahabharata is a long poem based on a noble theme.

- A summary
- B story
- C narration
- D epic

Answer: D

Question 87

A person who abstains completely from alcoholic drinks.

- A teetotaler
- B derelict
- C subjunctive
- D incriminatory

Answer: A

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Question 88

Person who files a suit.

- A charger
- B suitor
- C plaintiff
- D accuser

Answer: C

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 as your answer.

Question 89

- A misionerry
- B missionary
- C misionary
- D missionnary

Answer: B

Question 90

- A propellar
- B propeler
- C propeller
- D propelre

Answer: C

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Instructions

In the following questions, you have two passages with 5 questions in each passage. Read the passages carefully and choose the best answer to each question out of the four alternatives.

The reports published by a Delhi based non-governmental organization working for the elimination of child labour in India suggest that there is no end in sight to the sordid saga of child labour. The studies conducted reveal the nightmarish ordeals that a vast majority of children undergo for getting the basic necessities of life. One of the activists narrated the heart-rending and shocking stories of many hapless children. He accused the society of insensitivity towards this vulnerable section.

It is said that more than five percent of the total Indian population are child workers. Tens of thousands are chiefly engaged in agriculture in rural areas and in question variety of industries in urban areas. Children as young as seven years of age spend days stitching footballs, boxing and cricket gloves for export. Many children spend their entire childhood making carpets with their dexterous hands. Unofficial figures suggest that as many as 40 to 100 million children work in hazardous industries like glassware, fireworks, quarries etc. Many of them have been forced to work in unhygienic conditions often on a casual basis.

Question 91

.....of children work in hazardous conditions.

- A Many
- B Millions
- C Five percent
- D Thousands

Answer: B

Question 92

The society is accused oftowards the problem of child labour.

- A reports
- B vulnerability
- C insensitivity
- D bias

Answer: C

Question 93

The word heart-rending means.....

- A risky
- B distressing
- C shocking
- D painful

Answer: B

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Question 94

The report was published by.....

- A a Delhi based non-governmental organization
- B the Delhi government
- C a governmental organization
- D an activist

Answer: A

Question 95

Their childhood is spent in..... conditions.

- A vast
- B nightmarish
- C hapless
- D urban

Answer: C

Instructions

In the following questions, you have two passages with 5 questions in each passage. Read the passages carefully and choose the best answer to each question out of the four alternatives.

The advent of electric power was, in a way, comparable to the successful development and application of nuclear power in the 20th century. In fact, the historical roots of electricity extend far back into antiquity. Many men had a hand both in acquiring basic knowledge about the invisible form of power and in developing the ways adopted for practical purpose. One of the vital keys that helped to unlock the doors leading to the production of electricity was the discovery, in 1831, of the principle of electromagnetic induction. This discovery was made simultaneously by Michael Faraday in England and Joseph Henry in the United States. From it came the generator, sometimes also called the dynamo but several decades of development had to follow before the first practical dynamos or generator came into existence in early 1870.

Question 96

According to the author.

- A Michael Faraday and Joseph Henry revolutionized electricity in the USA
- B Nuclear power and electricity were discovered in the 20th century
- C The discovery of the principle of electromagnetic induction was not an important discovery

D The advent of electric power is equivalent to the application of nuclear power in the 20th century

Answer: D

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Question 97

Michael Faraday and Joseph Henry discovered

- A the application of nuclear power
- B the generator
- C the dynamo
- D the principle of electromagnetic induction

Answer: D

Question 98

Another word for "advent" is.....

- A discovery
- B arrival
- C invention
- D constitution

Answer: B

Question 99

The generator was also known as the

- A inductor
- B dynamo
- C inventor
- D conductor

Answer: B

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Question 100

Give a synonym for "antiquity".

- A Ancient
- B Antipathy
- C Modern
- D Uniqueness

Answer: A

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Quant

Instructions

For the following questions answer them individually

Question 101

A can do a piece of work in 16 days and B in 24 days. They take the help of C and three together finish the work in 6 days. If the total remuneration for the work is 400. The amount (in rupees) each will receive, in proportion, to do the work is

A A : 150, B : 100, C : 150

B A : 100, B : 150, C : 150

C A : 150, B : 150, C : 100

D A : 100, B : 150, C : 100

Answer: A

Explanation:

It is given that A, B can do a work in 16, 24 days respectively and together with C, A and B can do the same work in 6 days

Let assume that amount of work = 48 units (LCM of 6,16,24)

$$\text{A's 1 day work} = \frac{48}{16} = 3 \text{ units}$$

$$\text{B's 1 day work} = \frac{48}{24} = 2 \text{ units}$$

$$\text{(A + B + C)'s 1 day work} = \frac{48}{6} = 8 \text{ units}$$

$$\text{C's 1 day work} = 8 - (3+2) = 3 \text{ units.}$$

$$\text{So number of days required by C to complete 48 units of work} = \frac{48}{6} = 8 \text{ days}$$

$$\text{Now in 6 days ratio of units of work done in 6 days by A:B:C} = (6 \times 3):(6 \times 2):(6 \times 3) = 3 : 2 : 3$$

So out of total remuneration of Rs 400

$$\text{A's share} = \frac{3}{8} \times 400 = \text{Rs } 150$$

$$\text{B's share} = \frac{2}{8} \times 400 = \text{Rs } 100$$

$$\text{C's share} = \frac{3}{8} \times 400 = \text{Rs } 150$$

General Science Notes for SSC CGL

Question 102

When 75 is added to 75% of a number, the answer is the number. Find 40% of that number.

A 100

B 80

C 120

D 160

Answer: C

Explanation:

Let number be $100x$

$$\Rightarrow 75\% \text{ of the number} = \frac{75}{100} * 100x = 75x$$

$$\text{Now, } 75 + 75x = 100x$$

$$\Rightarrow x = \frac{75}{25} = 3$$

$$\text{Number} = 3 * 100 = 300$$

$$40\% \text{ of } 300 = \frac{40}{100} * 300 = 120$$

Question 103

A train 50 metres long passes a platform of length 100 metres in 10 seconds. The speed of the train in metre/second is

A 50

B 10

C 15

D 20

Answer: C

Explanation:

Given that

length of train(L) = 50m

Length of platform(P) = 100 m

time taken by train to cross the platform = 10 sec

Let the speed of train be S m/sec

using

Distance = Speed x Time

$$(50 + 100) = S \times 10$$

$$S = 15 \text{ sec}$$

Question 104

What will come in place of the question mark (?) in the series?

3, 8, 27, 112, (?), 3396

A 565

B 452

C 560

D 678

Answer: A

Explanation:

Let the missing term be y

here the sequence is 3, 8, 27, 112, y, 3396

here the pattern is :

$$8 = 3 \times 2 + 2$$

$$27 = 8 \times 3 + 3$$

$$112 = 27 \times 4 + 4$$

so from the highlighted pattern , we can say that

$$y = 112 \times 5 + 5 = 565$$

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Question 105

The difference between the compound interest and simple interest on a certain sum for 2 years at 10% per annum is 300. Find the sum.

A 31,000

B 31,500

C 30,000

D 30.500

Answer: C

Explanation:

If the principal amount is Rs P and rate of interest is R% then ,

R = 10% per annum

difference between Compund Interest and Simple Interest for 2 years = $\frac{P(R)^2}{100^2} = 300$

$$\frac{P(10)^2}{100^2} = 300$$

P = Rs 30000

Question 106

What number should be subtracted from both the terms of the ratio 11 : 15 so as to make it as 2 : 3 ?

A 2

B 3

C 4

D 5

Answer: B

Explanation:

let the term of 11y and 15y

and assume that we are subtracting z from each term .So,

$$\frac{11y-z}{15y-z} = \frac{2}{3}$$

$$33y - 3z = 30y - 2z$$

$$z = 3y$$

So we can say that the Z should be a multiple of 3 and hence the Number subtracted is "3"

Question 107

The value of $(\sin^2 72^\circ + \sin^2 82^\circ + \tan^2 2^\circ \tan^2 88^\circ)$ is

- A 1
- B 2
- C 0
- D 4

Answer: B

Explanation:

$$\sin 7\frac{1}{2}^\circ = \sin(90^\circ - 82\frac{1}{2}^\circ) = \cos 82\frac{1}{2}^\circ$$

$$\sin^2 7\frac{1}{2}^\circ = \cos^2 82\frac{1}{2}^\circ$$

$$\text{Similarly } \tan^2 88^\circ = \cot^2 2^\circ$$

$$(\sin^2 7\frac{1}{2}^\circ + \sin^2 82\frac{1}{2}^\circ + \tan^2 2^\circ \tan^2 88^\circ) = \sin^2 82\frac{1}{2}^\circ + \cos^2 82\frac{1}{2}^\circ + \tan^2 2^\circ \times \cot^2 2^\circ = 2$$

Hence Option B is the correct answer.

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Question 108

Find the value of $1 - 2\sin^2\theta + \sin^4\theta$.

- A $\sin^4\theta$
- B $\cos^4\theta$
- C $\operatorname{cosec}^4\theta$
- D $\sec^4\theta$

Answer: B

Explanation:

Here,

$$1 - 2\sin^2\theta + \sin^4\theta = 1^2 + (\sin^2\theta)^2 - 2 \times 1 \times \sin^2\theta$$

$$\text{it is similar to } (a - b)^2 = a^2 + b^2 - 2ab$$

So,

$$1^2 + (\sin^2\theta)^2 - 2 \times 1 \times \sin^2\theta = (\sin^2\theta - 1)^2 \dots (1)$$

$$\text{Now } \sin^2\theta + \cos^2\theta = 1 \dots (2)$$

From equation 1 and 2

$$(\sin^2\theta - 1)^2 = (\sin^2\theta - \sin^2\theta - \cos^2\theta)^2$$

$$= (\cos^2\theta)^2$$

$$= \cos^4\theta$$

Question 109

Jasmine allows 4% discount on the marked price of her goods and still earns a profit of 20%. What is the cost price of a shirt if its marked price is 850?

- A 650

- B 720
- C 700
- D 680

Answer: D

Explanation:

Marked price = 850

Discount % = 4%

$$\Rightarrow \text{Discounted amount} = \frac{4}{850} * 100 = 34$$

$$\Rightarrow \text{S.P.} = 850 - 34 = 816$$

Profit % = 20%

Let C.P. = x

$$\Rightarrow \frac{816 - x}{x} * 100 = 20$$

$$\Rightarrow 6x = 4080 \Rightarrow x = 680$$

C.P. = 680

Question 110

Selling an item for 1800 at a discount of 10% a shopkeeper had a gain of 200. Had he sold the item without discount the percentage of profit would have been

- A 10%
- B 20%
- C 25%
- D 30%

Answer: C

Explanation:

S.P. = 1800

Profit = 200

$$\Rightarrow \text{C.P.} = 1800 - 200 = 1600$$

Discount % = 10%

Let M.P. = $100x$

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

$$\Rightarrow \text{S.P.} = 100x - 10x = 90x = 1800$$

$$\Rightarrow x = 20$$

Now. M.P. = $20 * 100 = 2000$

If, he sold the item without giving any discount, in that case S.P. = M.P.

$$\Rightarrow \text{Profit \%} = \frac{2000 - 1600}{1600} * 100$$

$$= 25\%$$

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Question 111

A table with marked price 1200 was sold to a customer for 1100. Find the rate of discount allowed on the table.

- A 9 %
- B $8\frac{1}{3}$ %
- C $9\frac{1}{3}$ %
- D 10 %

Answer: B

Explanation:

Marked price = 1200

Selling price = 1100

$$\begin{aligned} \Rightarrow \text{Discount \%} &= \frac{1200 - 1100}{1200} * 100 \\ &= \frac{100}{1200} * 100 = \frac{25}{3} \\ &= 8\frac{1}{3} \% \end{aligned}$$

Question 112

Each of the circles of equal radii with centres A and B pass through the centre of one another circle they cut at C and D then $\angle DBC$ is equal to

- A 60°
- B 100°
- C 120°
- D 140°

Answer: C

Explanation:

Since the circles pass through the centre of each other, the distance between their centres will be equal to the radius of the circle.

Distance between the midpoint of line joining centres and centres = $r/2$.

Connecting the points of intersection and midpoint of the radii, we get a right angled triangle.

$$\cos A = (r/2)/(r) = 1/2$$

$$\Rightarrow A = 60 \text{ degrees.}$$

$$\angle DBC = 2 * \text{angle } A = 2 * 60 = 120 \text{ degrees.}$$

Question 113

A man, a woman and a boy together finish a piece of work in 6 days. If a man and a woman can do the work in 10 and 24 days respectively. The days taken by a boy to finish the work is

- A 30
- B 45
- C 40
- D 55

Answer: C

Explanation:

take the lcm of 6,10,24= 120

lets assume total work to be 120 units

work done by a man per day = $\frac{120}{10} = 12$

work done by a woman per day = $\frac{120}{24} = 5$

work done by all three together per day = $\frac{120}{6} = 20$

so that means work done by C per day = $20-12-5 = 3$

total days needed by the boy to finish the work = $\frac{120}{3} = 40$ days

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Question 114

The average of 11 numbers is 63. If the average of first six numbers is 60 and the last six numbers is 65, then the 6th number is

- A 57
- B 60
- C 62
- D 64

Answer: A

Explanation:

Let the 11 numbers be $N_1, N_2, N_3, \dots, N_{11}$

Average of 11 numbers = 63

$$\Rightarrow N_1 + N_2 + N_3 + \dots + N_{11} = 63 \times 11 = 693 \text{ -----Eqn\{1\}}$$

Average of first 6 = 60

$$\Rightarrow N_1 + N_2 + \dots + N_6 = 60 \times 6 = 360 \text{ -----Eqn\{2\}}$$

Average of last 6 = 65

$$\Rightarrow N_6 + N_7 + \dots + N_{11} = 65 \times 6 = 390 \text{ -----Eqn\{3\}}$$

Adding eqn 2 and 3, we get

$$N_1 + N_2 + \dots + 2N_6 + \dots + N_{11} = 360 + 390 = 750$$

Subtracting eqn 1 from it, we will be left with

$$\Rightarrow N_6 = 750 - 693 = 57$$

Question 115

If $x^2 + \frac{1}{x^2} = 66$ then the value of $\frac{x^2-1+2x}{x} = ?$

- A ± 8
- B 10, -6
- C 6, -10
- D ± 4

Answer: B

Explanation:

Expression : $x^2 + \frac{1}{x^2} = 66$

$\Rightarrow (x - \frac{1}{x})^2 + 2 = 66$

$\Rightarrow (x - \frac{1}{x})^2 = 64$

$\Rightarrow x - \frac{1}{x} = \pm 8$

To find : $\frac{x^2 - 1 + 2x}{x}$

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

$= (8 + 2) \text{ and } (-8 + 2)$

$= 10 \text{ and } -6$

Question 116

If I be the incentre of ΔABC and $\angle B = 70^\circ$ and $\angle C = 50^\circ$, then the magnitude of $\angle BIC$ is

A 130°

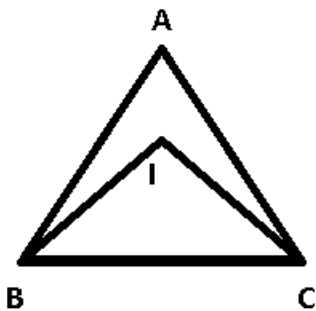
B 60°

C 120°

D 105°

Answer: C

Explanation:



In ΔABC

$\Rightarrow \angle A + \angle B + \angle C = 180^\circ$

$\Rightarrow \angle A + 70^\circ + 50^\circ = 180^\circ$

$\Rightarrow \angle A = 60^\circ$

Now, using properties of incentre, $\Rightarrow \angle BIC = 90^\circ + \frac{\angle A}{2}$

$\Rightarrow \angle BIC = 90^\circ + \frac{60^\circ}{2}$

$\Rightarrow \angle = 120^\circ$

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Question 117

For a triangle ABC, D, E, F are the mid-points of its sides. If $\Delta ABC = 24$ sq. units then ΔDEF is

A 4 sq. units

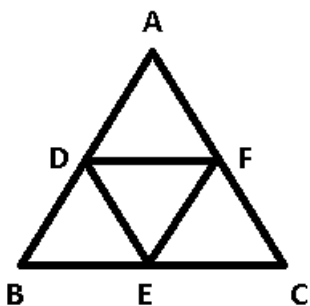
B 6 sq. units

C 8 sq. units

D 12 sq. units

Answer: B

Explanation:



Property : The line joining the mid points of two sides of a triangle is parallel to the third side and half of it.

$$\Rightarrow DF = \frac{1}{2} BC$$

$$\Rightarrow \frac{DF}{BC} = \frac{1}{2}$$

Similarly, $\frac{DE}{AC} = \frac{1}{2}$ and $\frac{EF}{AB} = \frac{1}{2}$

Hence, $\triangle ABC \sim \triangle DEF$

Property : The ratio of areas of two similar triangles is equal to the square of ratio of their corresponding sides.

$$\Rightarrow \frac{ar(\triangle DEF)}{ar(\triangle ABC)} = \frac{DF^2}{BC^2}$$

$$\Rightarrow \frac{ar(\triangle DEF)}{24} = \frac{1}{4}$$

$$\Rightarrow ar(\triangle DEF) = 6 \text{ sq. units}$$

Question 118

If $a^2 + a + 1 = 0$, then the value of a^9 is

A 2

B 3

C 1

D 0

Answer: C

Explanation:

Expression : $a^2 + a + 1 = 0$

Multiplying both sides by $(a - 1)$, we get :

$$\Rightarrow (a - 1)(a^2 + a + 1) = 0$$

$$\Rightarrow a^3 - 1 = 0$$

$$\Rightarrow a^3 = 1$$

Cubing both sides

$$\Rightarrow a^9 = 1$$

Question 119

For a triangle circumcentre lies on one of its sides. The triangle is

- A right angled
- B obtused angled
- C isosceles
- D equilateral

Answer: A

Explanation:

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

=> Ans - (A)

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Question 120

If $x + \frac{2}{x} = 1$ then the value of $\frac{x^2+x+2}{x^2(1-x)}$ is

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

Answer: A

Explanation:

Expression : $x + \frac{2}{x} = 1$

$$\Rightarrow x^2 + 2 = x$$

To find : $\frac{x^2+x+2}{x^2(1-x)}$

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

$$= \frac{2}{x-x^2}$$

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

Question 121

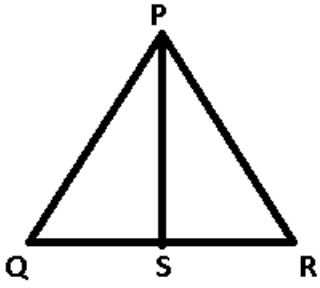
In APQR, the line drawn from the vertex P intersects QR at a point S. If QR = 4.5 cm and SR = 1.5 cm then the ratios of the area of triangle PQS and triangle PSR is

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

Answer: D

Explanation:

NOTE :- The ratio of area of two triangles on same base is equal to the ratio of two corresponding sides of the two triangles.



Given : QR = 4.5 cm and SR = 1.5 cm

=> QS = QR - SR = 4.5 - 1.5 = 3 cm

Since, the two triangles PQS and PSR have same base PS

$$\Rightarrow \frac{\text{area}(\triangle PQS)}{\text{area}(\triangle PSR)} = \frac{QS}{SR}$$

$$= \frac{3}{1.5} = 2 : 1$$

Question 122

The angle in a semi-circle is

- A a reflex angle
- B an obtuse angle
- C an acute angle
- D a right angle

Answer: D

Explanation:

In a circle, a chord subtends double the angle at the centre of the circle than at any other point on the circumference of the circle.

=> A diameter subtends 180° at the centre, thus it will subtend half of it, i.e. 90° at any other point on circle.

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Question 123

If $x = k^3 - 3k^2$ and $y = 1 - 3k$, then for what value of k . will be $x = y$?

- A 0
- B 1
- C -1
- D 2

Answer: B

Explanation:

If $x = k^3 - 3k^2$ and $y = 1 - 3k$

then for $x = y$

$$\Rightarrow k^3 - 3k^2 = 1 - 3k$$

$$\Rightarrow k^3 - 1 - 3k^2 + 3k = 0$$

$$\Rightarrow (k - 1)^3 = 0$$

$$\Rightarrow k = 1$$

Question 124

The marked price of an article is 500. A shopkeeper gives a discount of 5% and still makes a profit of 25%. The cost price of the article is.

- A 384
- B 380
- C 300
- D 376

Answer: B

Explanation:

Marked price = 500

$$\text{Now, } 5\% \text{ of } 500 = \frac{5}{100} * 500 = 25$$

$$\Rightarrow \text{Selling price} = 500 - 25 = 475$$

Profit % = 25%

Let C.P. = x

$$\Rightarrow \frac{475 - x}{x} * 100 = 25$$

$$\Rightarrow 5x = 1900 \Rightarrow x = 380$$

C.P. = 380

Question 125

A can do a piece of work in 12 days and B in 15 days. They work together for 5 days and then B left. The days taken by A to finish the remaining work is

- A 3
- B 5
- C 10
- D 12

Answer: A

Explanation:

lcm of 12,15=60

lets assume total work to be 60 units

$$\text{work per day for A} = \frac{60}{12} = 5 \text{ units}$$

$$\text{work per day for B} = \frac{60}{15} = 4 \text{ units}$$

as they worked together for 5 days so total work completed = $(5+4)*5 = 45$ days

$$\text{now days taken by A to complete the left over work} = \frac{60-45}{5} = 3 \text{ days}$$

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Question 126

The simplest value of $\cot 9^\circ \cot 27^\circ \cot 63^\circ \cot 81^\circ$ is

- A 0
- B 1
- C -1
- D $\sqrt{3}$

Answer: B

Explanation:

here we need to find the value of $\cot 9^\circ \cot 27^\circ \cot 63^\circ \cot 81^\circ \dots\dots\dots(1)$

$$\cot 9^\circ = \cot (90 - 81)^\circ = \tan 81^\circ \dots\dots\dots(2)$$

$$\cot 27^\circ = \cot (90 - 63)^\circ = \tan 63^\circ \dots\dots\dots(3)$$

using equations 1, 2 and 3

$$\cot 9^\circ \cot 27^\circ \cot 63^\circ \cot 81^\circ = \tan 81^\circ \tan 63^\circ \cot 63^\circ \cot 81^\circ = 1$$

Question 127

$55^3 + 17^3 - 72^3 + 201960$ is equal to

- A -1
- B 0
- C 1
- D 17

Answer: B

Explanation:

$$55^3 + 17^3 - 72^3 + 201960$$

we know that $a^3 + b^3 + c^3 - 3abc = 0$, if $a+b+c = 0$

$$\text{here, the equation } 55^3 + 17^3 - 72^3 + 201960 = 55^3 + 17^3 + (-72)^3 - 3 \times 55 \times 17 \times (-72)$$

$$a = 55, b = 17, c = -72$$

$$55+17+(-72) = 0$$

$$\text{hence, } 55^3 + 17^3 - 72^3 + 201960 = 0$$

Question 128

If $2 \sin \theta \cos \theta = 1$, then the value of $\tan \theta + \cot \theta$ is

- A 2
- B 3
- C 1
- D 0

Answer: A

Explanation:

It is given that $2 \sin \theta \cos \theta = 1$

$$\text{we know that } (\sin \theta)^2 + (\cos \theta)^2 = 1$$

$$\text{so, } 2 \sin \theta \cos \theta = (\sin \theta)^2 + (\cos \theta)^2 \dots\dots\dots(1)$$

Dividing the whole equation 1 by $\sin \theta \cos \theta$, we get

$$2 = (\sin\theta)/(\cos\theta) + (\cos\theta)/(\sin\theta)$$

$$\tan \theta + \cot \theta = 2$$

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Question 129

A sphere and a hemisphere have the same radius. Then the ratio of their respective total surface areas is

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

Answer: C

Explanation:

Let the common radius be "r" units

$$\text{area of sphere} = 4\pi r^2$$

$$\text{area of hemi-sphere} = 2\pi r^2 + \pi r^2 = 3\pi r^2$$

$$\frac{\text{Area of Sphere}}{\text{Area of Hemisphere}} = \frac{4\pi r^2}{3\pi r^2}$$

$$= \frac{4}{3}$$

Question 130

Find the value of $\sqrt{(x^2 + y^2 + 2)(x + y - 32)} \div \sqrt{xy^3 2^2}$ when $x = +1, y = -3$

- A 1
- B 0
- C $\frac{34}{3}$
- D 2

Answer: C

Explanation:

we need to find value of $\sqrt{(x^2 + y^2 + 2)(x + y - 32)} \div \sqrt{xy^3 2^2}$ when $x = +1, y = -3$

putting value of x, y

$$\sqrt{(1^2 + (-3)^2 + 2) \times (1 - 3 - 32)} \div \sqrt{1 \times (-3)^3 \times 4}$$

$$= 34/3$$

Question 131

The ratio of the ages of two persons is 4 : 7 and-the age of one of them is greater than that of the other by 30 years. The sum of their ages (in years) is

- A 110
- B 100

C 70

D 40

Answer: A

Explanation:

Let the age of one person be $4x$ and another be $7x$

it is given that $7x - 4x = 30$

$3x = 30$

$x = 10$ years

and hence sum of ages = $7x + 4x = 110$ years

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Question 132

The value of θ , which satisfies the equation $\sqrt{3}\tan\theta + 3 = 3\sec\theta$, $0^\circ \leq \theta < 90^\circ$ is

A 15° or 0°

B 30° or 0°

C 45° or 0°

D 60° or 0°

Answer: D

Explanation:

Given that $\sqrt{3}\tan\theta + 3 = 3\sec\theta$

Using 1) $\frac{\sin\theta}{\cos\theta} = \tan\theta$

and 2) $\frac{1}{\cos\theta} = \sec\theta$

$\sqrt{3}\tan\theta + 3 = 3\sec\theta$

$\sqrt{3}\frac{\sin\theta}{\cos\theta} + 3 = 3\frac{1}{\cos\theta}$

$\sqrt{3}\sin\theta + 3\cos\theta = 3$

$\theta = 0$ or 60

Question 133

A right pyramid 6 m height has a square base of which the diagonal is $\sqrt{1152}m$. Volume of the pyramid is

A 144 m

B 288 m

C 576 m

D 1152 m

Answer: D

Explanation:

It is given that base of pyramid is square and diagonal is given as $\sqrt{1152}m$

we know diagonal of square is $\sqrt{2}a$, where a is the side of square

$$\text{so, } \sqrt{1152}m = \sqrt{2}a$$

$$a = 24 \text{ m}$$

$$\text{Area of base} = \text{side}^2 = 24^2 = 576$$

$$\text{Height of pyramid} = 6 \text{ m}$$

$$\text{Volume of right pyramid} = \frac{1}{3} \times \text{Base Area} \times \text{Height} = \frac{1}{3} \times 576 \times 6 = 1152m^3$$

Question 134

A train running at the speed of 84 km/hr passes a man walking in opposite direction at the speed of 6 km/hr in 4 seconds. What is the length of train (in metre) ?

- A 150
- B 120
- C 100
- D 90

Answer: C

Explanation:

$$\text{Speed of train} = 84 \text{ km/hr} = 84 \times \frac{5}{18} = \frac{70}{3} \text{ m/sec}$$

$$\text{speed of man} = 6 \text{ km/hr} = 6 \times \frac{5}{18} = \frac{5}{3} \text{ m/sec}$$

$$\text{As both are moving in opposite direction, relative speed} = \frac{5}{3} + \frac{70}{3} = 25 \text{ m/sec}$$

$$\text{Time to cross the man} = 4 \text{ sec}$$

Let the length of train be L m, then

Using, Distance = Speed x Time

$$L = 25 \times 4 = 100 \text{ m}$$

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Question 135

If $2^{x-1} + 2^{x+1} = 320$, then the value of x is

- A 6
- B 8
- C 5
- D 7

Answer: D

Explanation:

$$2^{x-1} + 2^{x+1} = 320$$

$$\Rightarrow \frac{2^x}{2} + 2^x \cdot 2 = 320$$

$$\text{Let } 2^x = y$$

$$\Rightarrow \frac{y}{2} + 2y = 320$$

$$\Rightarrow 5y = 640 \Rightarrow y = 128$$

$$\text{Now, } 2^x = 128 = 2^7$$

$$\Rightarrow x = 7$$

Question 136

Among the angles 30° , 36° , 45° , 50° one angle cannot be an exterior angle of a regular polygon. The angle is

- A 30°
- B 36°
- C 45°
- D 50°

Answer: D

Explanation:

Given options for exterior angles are 30° , 36° , 45° , 50°

we know that sum of all exterior angles in a regular polygon = 180°

now, individual exterior angle in regular polygon = $\frac{180}{n}$

where, n = number of sides in a polygon.

and hence we can say n should be a positive integer as number of sides can not be in fraction or negative .

Now start, checking given angles.

If exterior angle is 30° , then number of sides = $\frac{180}{30} = 6$

If exterior angle is 36° , then number of sides = $\frac{180}{36} = 5$

If exterior angle is 45° , then number of sides = $\frac{180}{45} = 4$

If exterior angle is 50° , then number of sides = $\frac{180}{50} = \frac{18}{5}$

as one can see that in last option of exterior angle 50° , number of sides is coming in fraction and hence this option is not valid.

Question 137

If $\sin\theta = 0.7$, then $\cos\theta$, $0 \leq \theta < 90^\circ$, is

- A 0.3
- B $\sqrt{0.49}$
- C $\sqrt{0.51}$
- D $\sqrt{0.9}$

Answer: C

Explanation:

Given that : $\sin\theta = 0.7$

we know that : $\sin^2\theta + \cos^2\theta = 1$

$$\cos^2\theta = 1 - 0.7^2 = 1 - 0.49 = 0.51$$

$$\cos\theta = \sqrt{0.51}$$

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Question 138

If $a = 4011$ and $b = 3989$ then value of $ab = ?$

- A 15999879
- B 15899879
- C 15989979
- D 15998879

Answer: A

Explanation:

If $a = 4011$ and $b = 3989$

$$\begin{aligned} ab &= 4011 * 3989 = (4000 + 11) (4000 - 11) \\ &= 4000^2 - 11^2 = 16000000 - 121 \\ &= 15999879 \end{aligned}$$

Question 139

The value of $\sin^2 65^\circ + \sin^2 25^\circ + \cos^2 35^\circ + \cos^2 55^\circ$ is

- A 0
- B 1
- C 2
- D 1/2

Answer: C

Explanation:

$$\sin^2 65^\circ + \sin^2 25^\circ + \cos^2 35^\circ + \cos^2 55^\circ$$

$$= \sin^2(90 - 25) + \sin^2 25 + \cos^2(90 - 55) + \cos^2 55$$

we know $\sin(90 - \theta) = \cos \theta$

& , $\cos(90 - \theta) = \sin \theta$

using above identities ,

$$\sin^2(90 - 25) + \sin^2 25 + \cos^2(90 - 55) + \cos^2 55 = \cos^2(25) + \sin^2(25) + \sin^2(55) + \cos^2(55)$$

using $\sin^2 \theta + \cos^2 \theta = 1$

$$\cos^2(25) + \sin^2 25 + \sin^2(55) + \cos^2 55 = 1 + 1 = 2$$

Question 140

In the following number series a wrong number is given. Find out that number.

8, 18, 40, 86, 178, 370, 752

- A 178
- B 180
- C 128
- D 156

Answer: A

Explanation:

In the series : 8, 18, 40, 86, 178, 370, 752

The pattern followed is that we multiply the first number by 2 and add 2 to it, for the second number, we multiply by 2 and add 4, for the third, multiply by 2 and 6 and so on...

$$8 \times 2 + 2 = 18$$

$$18 \times 2 + 4 = 40$$

$$40 \times 2 + 6 = 86$$

$$86 \times 2 + 8 = \mathbf{180}$$

$$180 \times 2 + 10 = 370$$

$$370 \times 2 + 12 = 752$$

So, the wrong number is 178.

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Question 141

If the ratio of volumes of two cones is 2 : 3 and the ratio of the radii of their bases is 1 : 2, then the ratio of their heights will be

- A 8 : 3
- B 3 : 8
- C 4 : 3
- D 3 : 4

Answer: A

Explanation:

Let the radii of two cones be $r_1 = x$ and $r_2 = 2x$

Let the heights of the two cones be h_1 and h_2

=> Ratio of volumes :

$$\Rightarrow \frac{\frac{1}{3} \pi r_1^2 h_1}{\frac{1}{3} \pi r_2^2 h_2} = \frac{2}{3}$$

$$\Rightarrow \frac{x^2 h_1}{4x^2 h_2} = \frac{2}{3}$$

$$\Rightarrow \frac{h_1}{h_2} = \frac{8}{3}$$

=> Required ratio = 8 : 3

Question 142

3 years ago, the average age of a family of 5 members was 17 years. A baby having been born, the average age of the family is same today. The present age of the baby is

- A 1 year
- B 1.5 year
- C 2 years
- D 3 years

Answer: C

Explanation:

As we know, average = $\frac{\text{Sum}}{\text{Number of elements}}$

so 3 years ago total sum of all 5 members = $17 \times 5 = 85$

so after 3 years, every person will be 3 years older and hence total increase in sum of ages will be 15 years and hence present total age = $85 + 15 = 100$ years

let the present age of baby be z years so ,

total age of all 6 members = $100+z$

it is given that new average of 6 members is same as Of 5 years 3 years ago i.e. 17 years ,So,

$$17 = \frac{100+z}{6}$$

$z = 2$ years

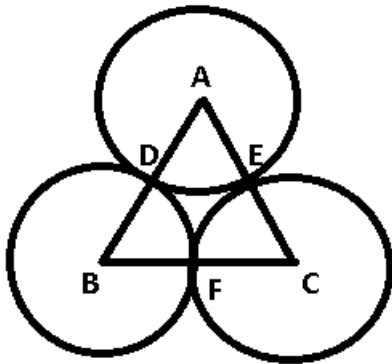
Question 143

The three equal circles touch each other externally. If the centres of these circles be A, B, C then ABC is

- A a right angle triangle
- B an equilateral triangle
- C an isosceles triangle
- D a scalene triangle

Answer: B

Explanation:



Since all the three circles are equal, let radius of each be r

$$\Rightarrow AD = DB = r$$

$$\Rightarrow AB = AD + DB = 2r$$

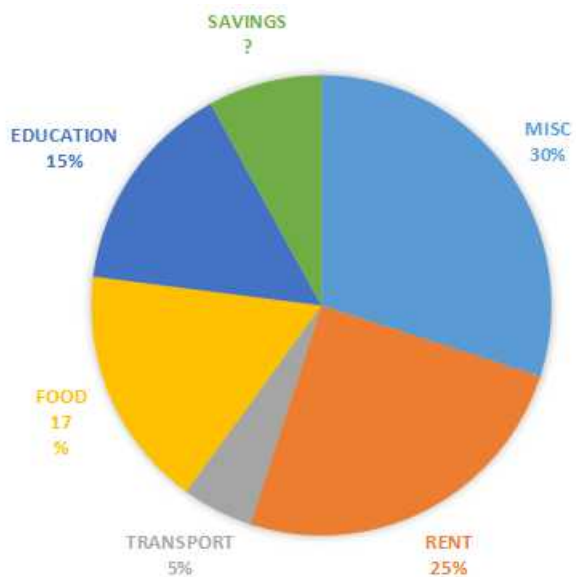
Similarly, $BC = AC = 2r$

Since, all sides are equal, \Rightarrow ABC is an equilateral triangle.

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Instructions

The adjoining pie-chart shows the proportional expenditure on various items of Amar's family. If monthly income of Amar is 48,000, answer the questions.



Question 144

Had his income be 40,000 how much would be spent on food ?

- A 14,960
- B 1,360
- C 8,160
- D 6,800

Answer: D

Explanation:

From the pie chart, it is evident that Amar spends 17% of his earnings on food.

Hence, had his earning been 40,000, his expenditure on food would have been $40,000 \times 0.17 = \text{Rs. } 6,800$

Hence, option D is the right answer.

Question 145

If 10% of miscellaneous expenditure is earmarked for clothing, how much amount is spent on clothes ?

- A 14,400
- B 1,440
- C 2,880
- D 15,840

Answer: B

Explanation:

10% of miscellaneous expenses is earmarked for clothing.

=> Expenditure on clothing = 10% of 30% of earnings = 3% of earnings = $3 \times 48000 / 100$

Expenditure on clothing = Rs. 1,440.

Option B is the right answer.

Question 146

How much does he save per month ?

- A 7,200
- B 14,400
- C 3,840
- D 2,400

Answer: C

Explanation:

Savings as a percentage of income = $100 - (30+25+5+15+17) = 100 - 92$

=> Savings = 8% of 48000

Savings = Rs. 3,840.

Hence, option C is the right answer.

General Science Notes for SSC CGL

Question 147

How much does he spend more on rent than on transport and education taken together ?

- A 2,400
- B 9,600
- C 4,800
- D 12,000

Answer: A

Explanation:

Expenditure on rent = 25% of income

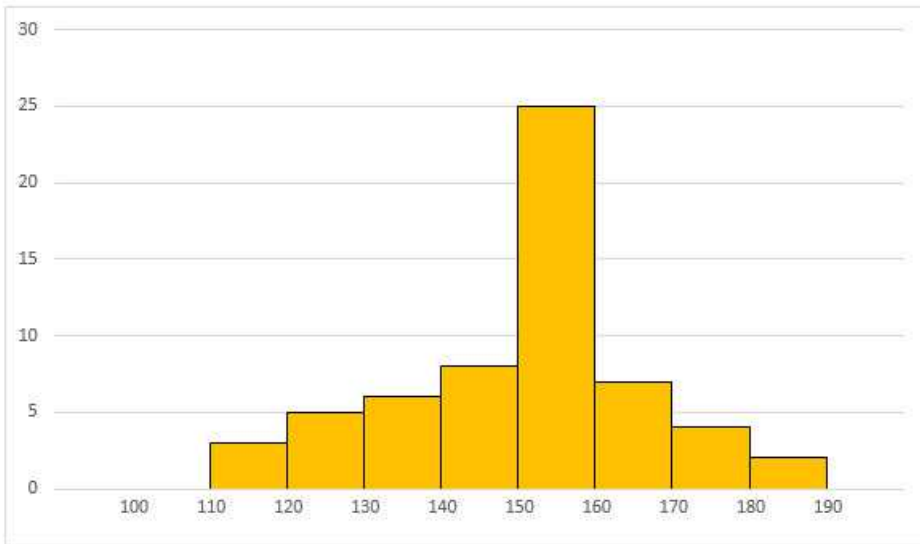
Expenditure on transport and education = $(15 + 5)\% = 20\%$

Difference in expenditure = 5% of 48,000 = Rs. 2400

Hence, option A is the right answer.

Instructions

Following histogram depicts the range of heights of students in a class of 60 students. Study the same and answer the questions.



Question 148

The number of students having height more than 150 cms is

- A 25
- B 8
- C 38
- D 13

Answer: C

Explanation:

Number of students having height more than 150 cm

$$= 25 + 7 + 4 + 2$$

$$= 38$$

Question 149

The number of students with their heights between 130 to 150 cms is

- A 8
- B 6
- C 14
- D 22

Answer: C

Explanation:

No. of students having height between 130 to 150 cm

$$= 6 + 8$$

$$= 14$$

Question 150

Group which contains maximum number of students is

- A 130-140
- B 150-160
- C 140-150
- D 160-170

Answer: B

Explanation:

Clearly, the group of students having height between 150-160 cm is maximum (25).

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Reasoning

Instructions

For the following questions answer them individually

Question 151

11 : 132 :: ?

- A 10: 100
- B 9 : 90
- C 13: 169
- D 15 : 250

Answer: B

Explanation:

Expression = 11 : 132 :: ?

The pattern followed is = $n : n^2 + n$

Eg = 11 : $11^2 + 11 = 11 : 132$

Similarly, in the second option = $9^2 + 9 = 81 + 9 = 90$

=> Ans - (B)

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Question 152

$\frac{1}{9} : \frac{1}{81}, \frac{1}{13} : ?$

- A $\frac{1}{169}$
- B $\frac{1}{125}$
- C $\frac{1}{120}$
- D $\frac{1}{127}$

Answer: A

Explanation:

Expression = $\frac{1}{9} : \frac{1}{81}, \frac{1}{13} : ?$

The pattern followed is = $\frac{1}{n} : \frac{1}{n^2}$

Eg = $\frac{1}{9} = \frac{1}{9^2} = \frac{1}{9} : \frac{1}{81}$

Similarly, $\frac{1}{13^2} = \frac{1}{169}$

=> Ans - (A)

Question 153

AB : ZY :: CD : ?

- A WX
- B UV
- C XW
- D VU

Answer: C

Explanation:

Expression = AB : ZY :: CD : ?

The pattern followed is that every letter is opposite to each other.

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

Thus, CD : XW

=> Ans - (C)

Question 154

Sheep : mutton :: Deer : ? .

- A meat
- B flesh
- C venison
- D veal

Answer: C

Explanation:

Mutton is the meat of sheep, similarly venison is meat of deer.

=> Ans - (C)

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Question 155

Cobbler : Leather :: Tailor : ? .

- A Cloth

- B Shirt
- C Draper
- D Thread



Answer: A

Explanation:

A cobbler is a person who works with leather, similarly a tailor sews clothes.

=> Ans - (A)

Question 156

FLOWER : REWOLF : FRUITS : ?

- A STUIRF
- B STIURF
- C STUIFR
- D STRUIF

Answer: B

Explanation:

Expression = FLOWER : REWOLF : FRUITS : ?

The pattern followed is that the word is written in reverse order, i.e. letter at first position will come at the end, 2nd position will become 2nd last and so on.

Similarly FRUITS : **STIURF**

=> Ans - (B)

Instructions

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

Question 157

- A TPDC
- B BKDF
- C OLTF
- D BJLQ

Answer: C

Explanation:

Apart from the third option, the remaining groups contain only consonants. Hence, OLTF is the odd one out.

=> Ans - (C)

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Question 158

- A Distribution
- B Dispersion
- C Diversion



D Dilution

Answer: D

Explanation:

Distribution, dispersion and diversion have similar meanings which is to spread, thus dilution is the odd one out.

=> Ans - (D)

Question 159

A 6

B 24

C 64

D 120

Answer: C

Explanation:

Apart from 64, none of the numbers given is a perfect square, hence it is the odd one.

=> Ans - (C)

Question 160

A Bachelor

B Widow

C Spinster

D Wife

Answer: A

Explanation:

Except a bachelor, all mentioned people are females, hence it is the odd one.

=> Ans - (A)

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Question 161

A 88

B 97

C 132

D 121

Answer: B

Explanation:

All the given numbers but 97 are divisible by 11, hence it is the odd one out.

=> Ans - (B)

Question 162

A I

- B E
- C B
- D O

Answer: C

Explanation:

I, E and O are vowels, hence B is the odd one out.

=> Ans - (C)

Instructions

For the following questions answer them individually

Question 163

Arrange the following words as per order in the dictionary.

- (A) Necrology
- (B) Necromancy
- (C) Necropolis
- (D) Necrophilia

- A (A), (B), (C), (D)
- B (A), (B), (D), (C)
- C (B), (A), (C), (D)
- D (B), (A), (D), (C)

Answer: B

Explanation:

As per order in the dictionary,

= Necrology -> Necromancy -> Necrophilia -> Necropolis

≡ (A), (B), (D), (C)

=> Ans - (B)

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Question 164

Which one of the given responses would be a meaningful order of the following ?

- (A) Plant
- (B) Seed
- (C) Fruit
- (D) Seedling

- A (D), (B), (C), (A)
- B (B), (C), (A), (D)
- C (D), (A), (C), (B)
- D (C), (B), (D), (A)

Answer: C

Explanation:

The given words in the meaningful order is :

= Seedling -> Plant -> Fruit -> Seed

≡ (D), (A), (C), (B)

=> Ans - (C)

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 165

2, 3, 5, 9, 17, ? .

A 31

B 32

C 33

D 34

Answer: C

Explanation:

Let the missing term be y

here the given sequence is 2, 3, 5, 9, 17

here we can see that

$$3 = 2 \times 2 - 1$$

$$5 = 3 \times 2 - 1$$

$$9 = 5 \times 2 - 1$$

$$17 = 9 \times 2 - 1$$

As the every next term is twice of previous term and minus 1 from it .

$$\text{So, } y = 17 \times 2 - 1 = 33$$

Question 166

7, 12, 22, 42, 82, ? .

A 173

B 162

C 183

D 143

Answer: B

Explanation:

Given sequence is 7, 12, 22, 42, 82

Let the missing term be y

$$12 - 7 = 5$$

$$22 - 12 = 10$$

$$42 - 22 = 20$$

$$82 - 42 = 40$$

As we can see that every time the difference is getting doubled so,

$$y - 82 = 80$$

$$y = 162$$

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Question 167

ACE, BDF, CEG, ? .

- A DEF
- B DFH
- C D EH
- D DFE

Answer: B

Explanation:

In the given Pattern ACE, BDF, CEG , we can see that first term of every sequence is a pattern of continuing alphabets A, B, C... starting from A so 1st term of unknown part is D

and 2nd term of every sequence is a pattern of continuing alphabets C, D, E... starting from C, so 2nd term of unknown part is F

and 3rd term of every sequence is a pattern of continuing alphabets E, F, G... starting from E, so third term of unknown part is H

and hence the unknown sequence = DFH

Question 168

ABC PQR DEF STU ? .

- A VWX
- B GHI
- C IJK
- D GKL

Answer: B

Explanation:

Here the given pattern is ABC PQR DEF STU

as we can see that alphabets from A to Z are divided in to groups of 3 and written at position at every alternate positions:

ABC (PQR) DEF (STU) **GHI**

hence the missing pattern is GHI

Instructions

For the following questions answer them individually

Question 169

From the given alternatives select the word which cannot be formed using the letters given in the word. MERCHANDISE

- A MESH
- B DICE
- C CHARM

D CHANGE

Answer: D

Explanation:

From the given alternatives the only word which cannot be formed using the letters given in the word MERCHANDISE is CHANGE because of the absence of the letter D in MERCHANDISE.

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Question 170

Select the correct combination of mathematical signs to replace * signs and to balance the given equation.

$$2 * 4 * 3 * 4 * 9$$

A $+ \times = -$

B $\times - + =$

C $\times \div - =$

D $+ - = \div$

Answer: B

Explanation:

In this question we need to check every option available to us and as soon as we get the right answer we will choose that option .

the given sequence is $2 * 4 * 3 * 4 * 9$

option A) $+ \times = -$

$2 + 4 \times 3 = 4 - 9$ here , $14 \neq -5$, So option A is not valid

option B) $\times - + =$

$2 \times 4 - 3 + 4 = 9$, Using BODMAS,

$$8 - 3 + 4 = 5 + 4 = 9$$

here we see that 2nd option is satisfying the given equation , hence our answer is option B

Question 171

In a retail shop, there were 54 cupboards. In each cupboard. 28 racks were made. In each rack 10 boxes were kept. In each box 4 shirts were packed. One day 500 boxes were sold and 250 boxes were purchased. How many shirts were there on that day ?

A 59,360

B 59,580

C 59,480

D 60,380

Answer: C

Explanation:

Given, The number of cupboards = 54.

The number of racks = $54 \times 28 = 1512$.

The number of boxes = $1512 \times 10 = 15120$.

Also given , One day 500 boxes were sold and 250 boxes were purchased.

The number of boxes = $15120 - 500 + 250 = 14870$.

Hence ,The number of shirts = $4 \times 14870 = 59,480$

Question 172

If $>$ denotes $+$, $<$ denotes $-$, $+$ denotes \div , \wedge denotes \times , $-$ denotes $=$, \times denotes $>$ and $=$ denotes $<$, choose the correct statement of the following.

A $13 > 7 < 6 + 2 = 3 \wedge 4$

B $9 > 5 > 4 - 18 + 9 > 16$

C $9 < 3 < 2 > 1 \times 8 \wedge 2$

D $28 + 4 \wedge 2 = 6 \wedge 4 + 2$

Answer: B

Explanation:

Given that, $>$ denotes $+$, $<$ denotes $-$, $+$ denotes \div , \wedge denotes \times , $-$ denotes $=$, \times denotes $>$ and $=$ denotes $<$

Option (A) : $13 > 7 < 6 + 2 = 3 \wedge 4$ is same as $13 + 7 - 6 \div 2 < 3 \times 4$. Clearly, 7 is not less than 12.

Option (B) : $9 > 5 > 4 - 18 + 9 > 16$ is same as $9 + 5 + 4 = 18 \div 9 + 16$. Clearly, $18 = 18$.

Hence, Option (B) is the answer.

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Question 173

Mahesh is '60' years old. Ram is '5' years junior to Mahesh and '4' years senior to Raju. The youngest brother of Raju is Babu and he is '6' years junior to him. What is the age difference between Mahesh and Babu ?

A 18 years

B 15 years

C 13 years

D 06 years

Answer: B

Explanation:

Mahesh's age = 60 years

=> Ram's age = $60 - 5 = 55$ years

and Raju's age = $55 - 4 = 51$ years

=> Babu's age = $51 - 6 = 45$ years

\therefore Age difference between Mahesh and Babu = $60 - 45 = 15$ years

=> Ans - (B)

Question 174

In a certain code language Sue Re Nik means She is brave. Pi Sor Re Nik means She is always smiling and Sor Re Zhi means Is always cheerful. What is the code used for the word 'smiling' ?

A Nik

B Re

C Pi

D Sor

Answer: C

Explanation:

If In a certain code language Sue Re Nik means She is brave. Pi Sor Re Nik means She is always smiling and Sor Re Zhi means Is always cheerful, then it can be inferred that
Sue Re= she is
is=Re
Sue=she
Sor= always
therefore Pi= smiling and
Zhi= cheerful.
the correct answer is option C.

Question 175

$$20 + \frac{15}{5} \times \frac{4}{3} \times \frac{2}{5} \times \frac{8}{5} = ?$$

- A 1.6
- B 2.0
- C 1.9
- D 3

Answer: A

Explanation:

$$20 + \frac{15}{5} \times \frac{4}{3} \times \frac{2}{5} \times \frac{8}{5}$$

$$= 20 + \frac{64}{75}$$

$$= \frac{225+256}{300}$$

$$= \frac{481}{300}$$

$$= 1.6$$

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Question 176

If $1 + 4=9$, $2 + 8=18$, $3+6 = 15$ then $7 + 8 = ?$

- A 41
- B 23
- C 30
- D 32

Answer: B

Explanation:

Here we are given :

$$1 + 4=9$$

$$2 + 8=18$$

$$3+6 = 15$$

So if the number is , $x + y$ then it is equal to $[(x+y) + y]$

here we need to calculate value of $7 + 8 = [(7 + 8) + 8] = 23$

Question 177

If PKROK is coded as 72962 and KRRPK as 29972 then how can NJMLZ be coded ?

- A 74314
- B 91572
- C 51430
- D 45176

Answer: C

Explanation:

If PKROK is coded as 72962 and KRRPK as 29972 then it can be inferred that K=2 and therefore J=1, so all the letters starting with J will be assigned consecutive values. therefore NJMLZ can be coded as 51430, which is option C.

Question 178

If 'FATHER' is coded as 'HCVJGT' then how can 'SHIP' be coded as :

- A TIJQ
- B UJKR
- C THKR
- D UKJR

Answer: B

Explanation:

It is given that 'FATHER' is coded as 'HCVJGT'

Here F = H (H is the 2nd letter from F)

A = C (C is the 2nd letter from A)

T = V (V is the 2nd letter from T)

H = J (J is the 2nd letter from H)

E = G (G is the 2nd letter from E)

R = T (T is the 2nd letter from R)

So for SHIP,

2nd letter from S is U

2nd letter from H is J

2nd letter from I is K

2nd letter from P is R

Hence SHIP can be written as "UJKR"

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Question 179

From the given alternative words, select the word which can be formed using the letters of the given word.
REPUTATION

- A PONDER

- B REQUIRE
- C RETIRE
- D TUTOR

Answer: D

Explanation:

From the given alternative words, the only word which can be completely formed using the letters of the given word REPUTATION is TUTOR. option D.

Question 180

Find the hidden meaningful word from the coded alphabets if the alphabets are in reverse order.

- A 11, 15, 26, 13, 22
- B 15, 11, 22, 26, 13
- C 11, 22, 15, 13, 26
- D 26, 22, 15, 13, 11

Answer: A

Explanation:

Option A :

11= P, 15= L, 26= A, 13= N, 22= T

Question 181

Looking at a woman sitting next to him, Amit said, "She is the sister of the husband of my wife". How is the woman related to Amit ?

- A Daughter
- B Sister
- C Wife
- D Niece

Answer: B

Explanation:

Amit's wife's husband is Amit himself.

Now, according to ques, the woman is Amit's sister.

=> Ans - (B)

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Instructions

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

Question 182

24	20	37
31	25	?
26	36	19

- A 26
- B 30
- C 25
- D 23

Answer: C

Explanation:

Consider Column wise or row wise , we get the sum as 81
Hence, 25 is the answer.

Question 183

6	5	4
7	6	5
5	7	6
37	23	?

- A 10
- B 12
- C 13
- D 14

Answer: D

Explanation:

Consider , column wise
 $6 \times 7 - 5 = 37$
 $5 \times 6 - 7 = 23$
 $4 \times 5 - 6 = 14$
Hence, Option D.

Question 184

8	12	13
6	5	10
2	8	?
—	—	—
4	15	18

- A 15
- B 5
- C 6
- D 3

Answer: A

Explanation:

Consider , column wise

$$8 - 6 + 2 = 4$$

$$12 - 5 + 8 = 15$$

$$13 - 10 + x = 18$$

$$\text{Hence, } x = 15$$

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Instructions

For the following questions answer them individually

Question 185

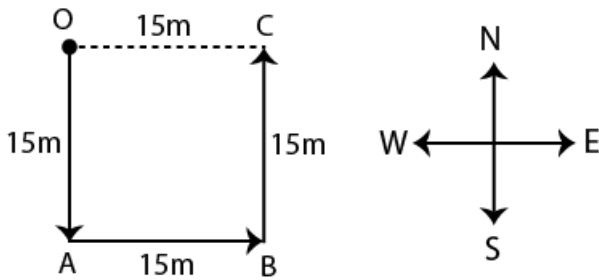
Sharada started to move in the direction of south. After moving 15 metres, she turned to her left - twice and moved 15 metres each time. Now how far is she and in which direction from her starting point ?

- A 15 m. East
- B 15 m. South
- C 30 m. East
- D 20 m. West

Answer: A

Explanation:

The path traced by Shradha will be



it can be seen that her final position is 15m to the East of her starting position. therefore the correct answer is option A.

Question 186

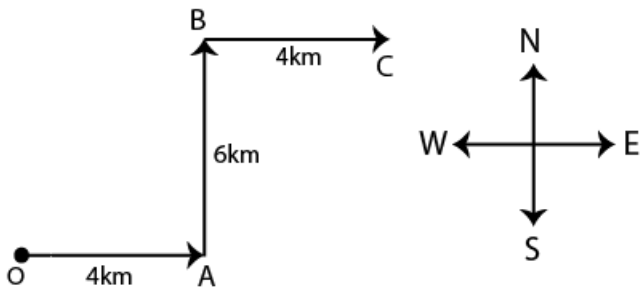
Sonia started from her house and travelled 4 km towards east. Then she turned left and travelled 6 km. Then she turned right and travelled 4 km. Now at what distance is she from starting point ?

- A 14 km
- B 8 km
- C 5 km
- D 10 km

Answer: D

Explanation:

The path of Sonia can be traced as



the distance between her start and finish points will be equal to OC, which by using pythagoras theorem will be: $\sqrt{8^2 + 6^2} = 10$. therefore the correct answer is option D.

Question 187

In each of the following question, there are two statements labelled as Assertion (A) and Reason (R).

- (A) Autism is a developmental disability.
- (R) Heridity and lower development of brain are the causes of the Autism.

- A Both (A) and (R) are false
- B Both (A) and (R) are true
- C (A) is true and (R) is false
- D (A) is false and (R) is true

Answer: B

General Science Notes for SSC CGL

Question 188

Directions : One Statement is given followed by two Conclusions I and II. You have to consider the statement to be true, even if it seems to be at variance from commonly known facts. You are to decide which of the given conclusions can definitely be drawn from the given statement. Indicate your answer.

Statement: Most Indians are aware that they have a great heritage, but few would include science in it.

Conclusions :

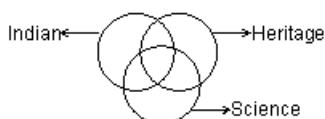
- I. Many Indians consider sciences have made Indian heritage great.
- II. Many Indians are not aware that India has a great scientific heritage.

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

Answer: C

Explanation:

The venn diagram for above statements is :



Conclusions :

- I. Many Indians consider sciences have made Indian heritage great = true

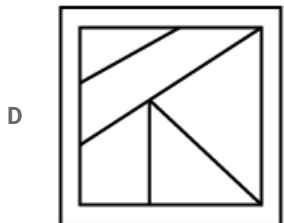
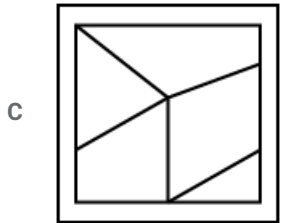
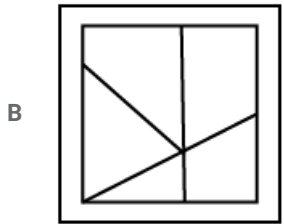
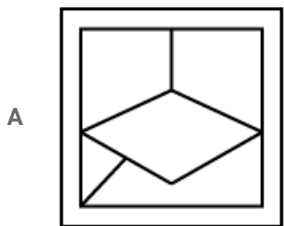
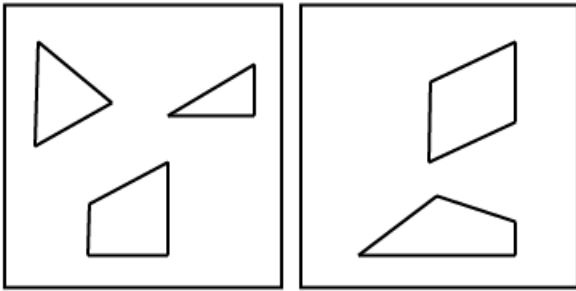
II. Many Indians are not aware that India has a great scientific heritage = true

Thus, both Conclusions I and II follow

=> Ans - (C)

Question 189

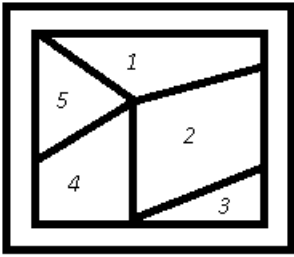
Identify the answer figure from which the pieces given in the question figures have been cut.



Answer: C

Explanation:

By joining the pieces given in above figure, we can make the diagram :

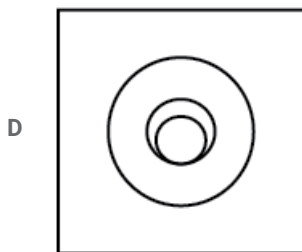
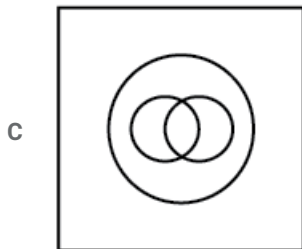
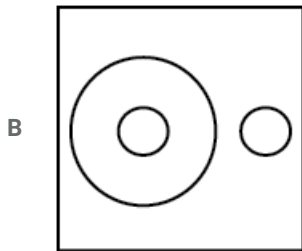
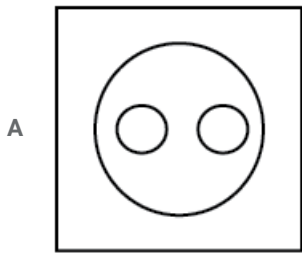


where each of the region is represented by 1,2,3,4 & 5

Ans - (C)

Question 190

Which of the following diagrams represents the correct relationship between Herbivores, Tigers and Animals ?



Answer: A

Explanation:

Tigers are animals but they are carnivores and not herbivores.

Also, all herbivores are animals.

=> The venn diagram that best describe above relation :

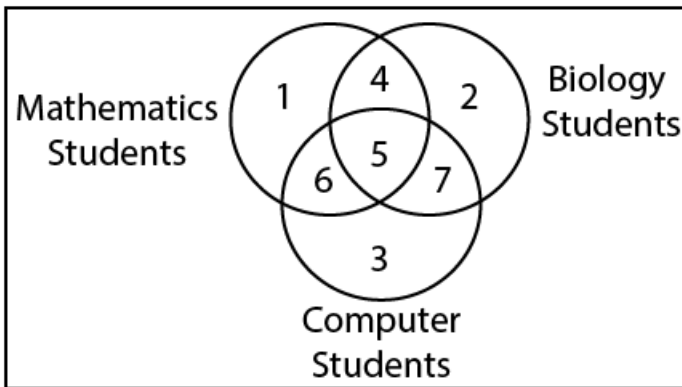


Ans - (A)

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Question 191

Identify the region that represents students studying Biology and Computer not Mathematics.



A 2

B 7

C 4

D 6

Answer: B

Explanation:

Region that represents studying biology = $2 + 4 + 5 + 7$

Region that represents studying Computer = $3 + 5 + 6 + 7$

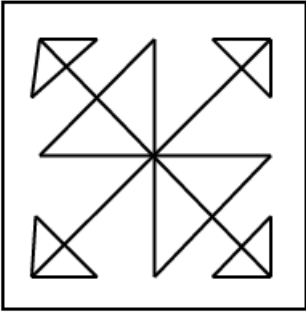
Region that represents studying both bio and Computer = $5 + 7$

But, 5 here also represents students who study Maths

=> region that represents students studying Biology and Computer not Mathematics = 7

Question 192

Find out the number of triangles in this figure.



A 12

B 14

C 16

D 18

Answer: D

Explanation:

If we count the triangles that are obvious in the picture = 12

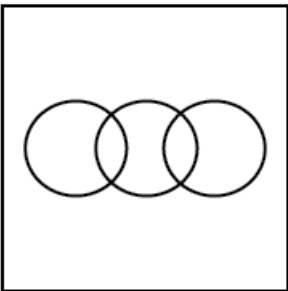
Now, each triangle is divided in two parts $\Rightarrow 12/2 = 6$

\Rightarrow Total triangles = $12+6 = 18$

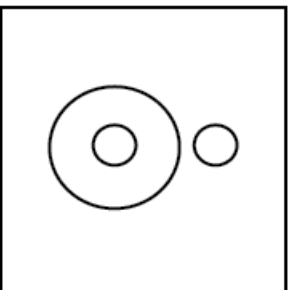
Question 193

Which of the following diagrams represents the correct relationship between Books, Novels and Dictionaries ?

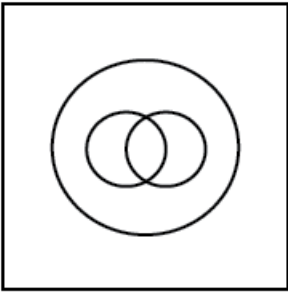
A



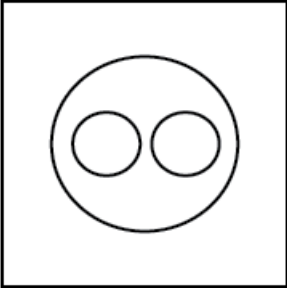
B



C



D



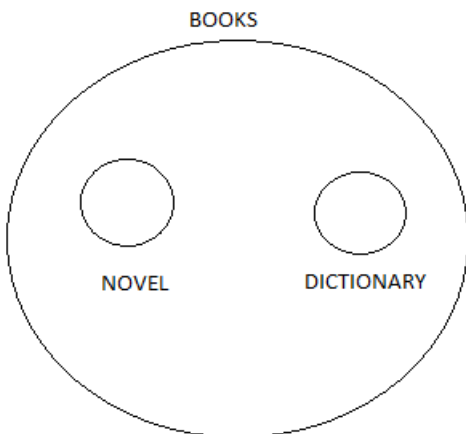
Answer: D

Explanation:

Every novel is a book, but it is not mandatory that every book will be a novel

similarly every dictionary is a book but it is not necessary that every book will be a dictionary

No dictionary can be novel and no novel can be a dictionary .hence the resultant diagram is :

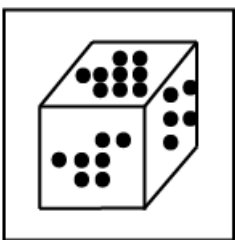


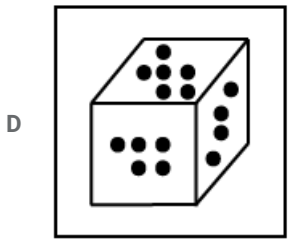
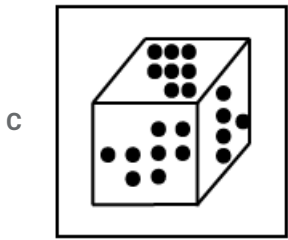
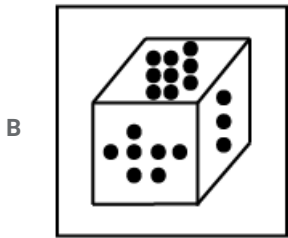
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Question 194

If the difference between the no. of dots on the opposite faces is 3, find out the figure which is correct ?

A





Answer: D

Explanation:

If the difference between the no. of dots on the opposite faces is 3

=> 1 will face 4.

Similarly, 2 <=> 5 and 3 <=> 6 and so on..

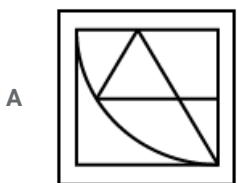
Thus, all the three adjacent sides will have difference less than equal to 3, which is correctly described by the last figure.

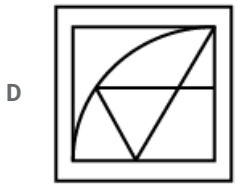
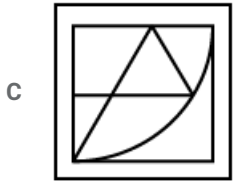
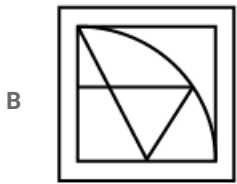
=> Ans - (D)

Instructions

In each of the following questions, which answer figure will complete the pattern in the question figure ?

Question 195





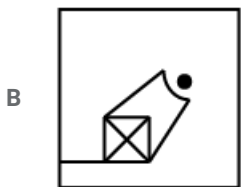
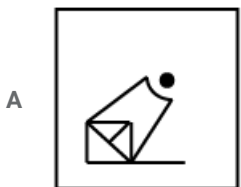
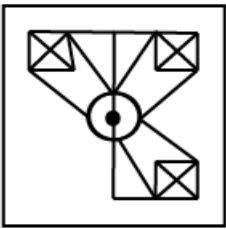
Answer: C

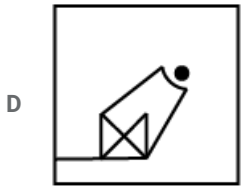
Explanation:

Clearly, the missing figure is the lower right quadrant of a circle which is depicted by figure 3.

=> Ans - (C)

Question 196





Answer: C

Explanation:

To complete the above figure, we need a square at the bottom left position

=> (B) & (D) are eliminated.

Also, the square must have both of its diagonals drawn and intersecting each other.

=> (A) is also eliminated.

Ans - (C)

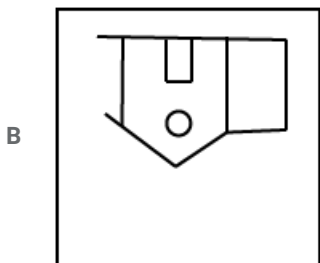
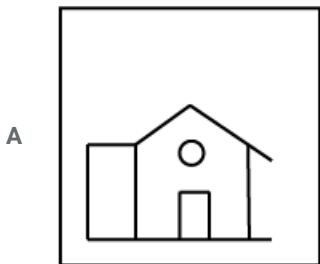
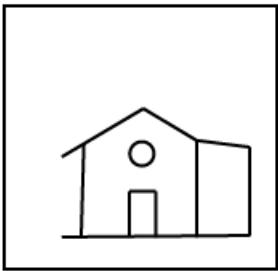
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Instructions

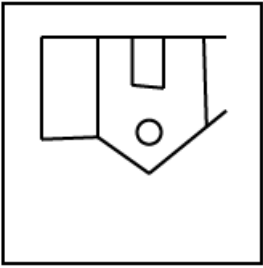
For the following questions answer them individually

Question 197

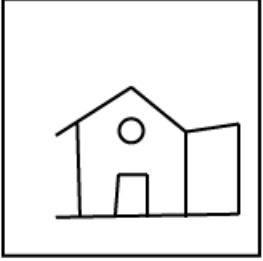
Which of the answer figures is , exactly the water image of the given figure ?



C



D



Answer: B

Explanation:

For the water image, the mirror is horizontally placed, which means the image will be turned upside down

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

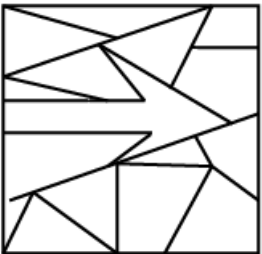
Also, there is a rectangle at the right of the house, it will remain at the right hand side.

=> (C) is also eliminated.

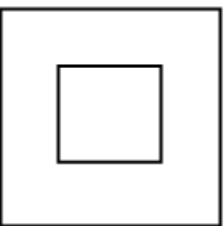
Ans - (B)

Question 198

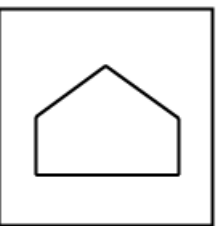
From the given answer figures, select the one which is hidden/ embedded, in the question figure?

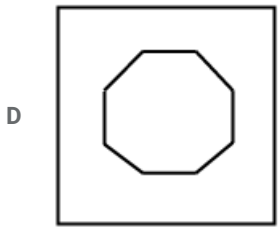
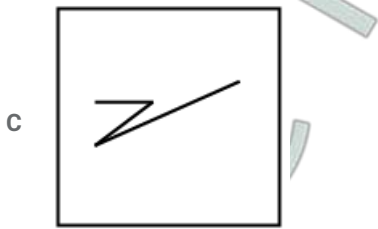


A



B





Answer: C

Explanation:

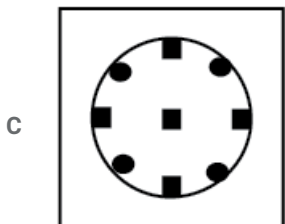
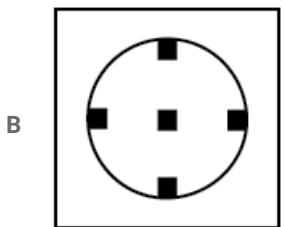
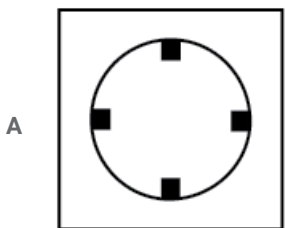
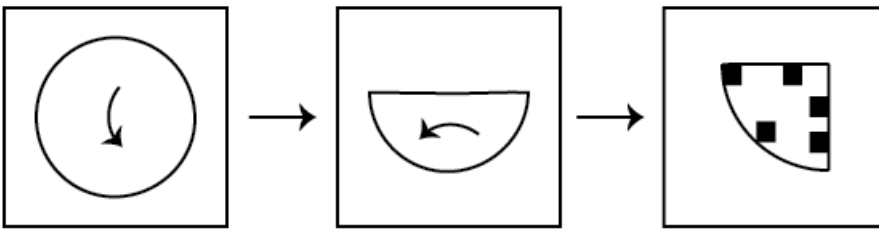
The question figure is just made of random lines.

There is no square or pentagon or octagon in the given figure, but a zigzag line can be seen in the middle just underneath the arrow.

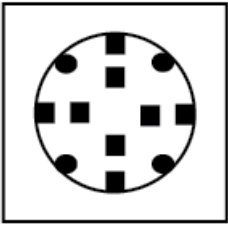
=> Ans - (C)

Question 199

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



D



Answer: D

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Question 200

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 two matrices given below. The columns and rows of Matrix I are numbered from 0 to 4 and that of Matrix II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column. e.g., 'M' can be represented by 42, 31. etc. and '13' can be represented by 95, 88 etc. Similarly, you have to identify the set for the word given 'ROST'.

MATRIX I

	0	1	2	3	4
4	K	L	M	N	O
3	L	M	K	O	N
2	N	O	L	M	K
1	M	N	O	K	L
0	O	K	N	L	M

MATRIX II

	5	6	7	8	9
9	P	Q	R	S	T
8	T	S	Q	P	R
7	R	T	S	Q	P
6	S	P	T	R	Q
5	Q	R	P	T	S

A 56, 44, 67, 40

B 97, 21, 66, 29

C 75, 00, 10, 92

D 68, 33, 65, 58

Answer: D

Explanation:

(A) - 56, 44, 67, 40 = ROTK

(B) - 97, 21, 66, 29 = ROP

(C) - 75, 00, 10, 92 = ROM

(D) - 68, 33, 65, 58 = **ROST**

=> Ans - (D)

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