



SSC CGL Tier 1 9 August 2015 Shift 2

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General Awareness

Instructions

For the following questions answer them individually

Question 1

Which of the following can be found as pollutants in the drinking water in some parts of India?

Select the correct answer using the code given below.

- (A) Arsenic
- (B) Sorbitol
- (C) Fluoride
- (D) Formaldehyde
- (E) Uranium

- A B, D and E
- B A, B, C, D and E
- C A, C and E
- D A and C

Answer: C

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Question 2

Cyanide poisoning causes death in seconds because

- A It denatures enzymes of the heart/muscle
- B It breaks the electron transport chain
- C It causes Lysis of red blood cells.
- D It causes cardiac arrest

Answer: D

Question 3

Xenobiotics which are inherently resistant to microbial attack are called as:

- A Biodegradable
- B Persistent
- C All of the given options
- D Recalcitrant

Answer: D

Question 4

The Battle of Plessey was fought in year

- A 1775

- B 1757
- C 1761
- D 1576

Answer: B

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Question 5

Who discovered the first antibiotic ?

- A W Fleming
- B C Waksman
- C Louis Pasteur
- D A Fleming

Answer: D

Question 6

Indian first talkie film produced in 1931 was

- A Shakuntala
- B Indra Sabha
- C Neel Kemal
- D Alamara

Answer: D

Question 7

State Bank of India was previously known as :

- A Imperial Bank of India
- B Canara Bank
- C Syndicate Bank
- D Co-operative Bank of India

Answer: A

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Question 8

On 2nd June 2015 a Conference on Make in India Indigenisation of currency was organised by the department of Economic Affairs, Ministry of Finance, Govt. of India. Who inaugurated the Conference?

- A Finance Minister

- B Finance Secretary
- C Governor R.B.I.
- D Prime Minister

Answer: A

Question 9

The ore of Aluminium is

- A Fluorspar
- B Bauxite
- C Chalco pyrites
- D Hematite

Answer: B

Question 10

In the grass lands, trees do not replace the grasses as a part of an ecological succession because of

- A Limited sun light and paucity of nutrients
- B None of the options
- C Insect and fungi
- D Water limits and fire

Answer: D

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Question 11

The Mediterranean region are characterized by heavy rain in:

- A Winter
- B Spring
- C Autumn
- D Summer

Answer: A

Question 12

Earthquakes are caused by

- A Denudation
- B Tectonism
- C Earth revolution

D Earth rotation

Answer: B

Question 13

The oldest form of composition of Hindustani vocal music is

A Dhurpad

B Thumri

C Ghazal

D None of the options

Answer: A

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Question 14

The Women's Reservation Bill seeks how much reservation for women in the State assemblies and Lok Sabha ?

A 30%

B 25%

C 33%

D 36%

Answer: C

Question 15

The Dynamo converts

A Electrical Energy into Mechanical Energy

B Mechanical Energy into Magnetic Energy

C None of these

D Mechanical Energy into Electrical Energy

Answer: D

Question 16

When is International 'Yoga Divas' is celebrated ?

A 21 June

B 21 May

C 25 April

D 21 July

Answer: A

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Question 17

Which was the first hydel power project in India ?

- A Pallivasal in Kerala
- B Paikara in Tamil Nadu
- C Siva Samudram in Karnataka
- D Nizamnagar in Andhra Pradesh

Answer: C

Question 18

Microbial Type Culture Collection Centre is situated at:

- A Bangalore
- B Chandigarh
- C New Delhi
- D Hyderabad

Answer: B

Question 19

Mahatma Gandhi began his political activities in India first from :

- A Dandi
- B Kheda
- C Sabarmati
- D Champaran

Answer: D

General Science Notes for SSC CGL

Question 20

Raga Kameghwari was composed by

- A Ustad Amzad Ali Khan
- B None of the options
- C Pandit Ravi Shankar
- D Uday Shankar

Answer: C

Question 21

The father of computer is

- A Oliver Twist
- B Charles Dickens
- C Charles Babbage
- D Love Lice

Answer: C

Question 22

In which year did Dada Saheb Phalke produce the first feature film ?

- A 1911
- B 1913
- C 1910
- D 1912

Answer: B

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Question 23

The earth completes one rotation on its axis in :

- A 23 hrs. 56 min. 4.9 sec
- B 23 hrs. 10 min. 2 sec
- C 23 hrs. 30 min.
- D 24 hrs.

Answer: A

Question 24

What is the fascist view of state ?

- A State enhances the ideal of individualism
- B Nation state is unquestionably sovereign
- C State is the instrument of exploitation in the hands of few.
- D State is under the control of a king

Answer: B

Question 25

The Environment (Protection) Bill was passed by the Parliament of India in -

- A 1984
- B 1972
- C 1986
- D 1981

Answer: C

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Question 26

“Don't Laugh : We are Police”, this book was compiled by

- A Shanti Swaroop I.G.
- B None of the options
- C Bishan Lal Vohra
- D K.P.S. Gill D.G.P

Answer: C

Question 27

What is ordinary Law ?

- A Laws made by the High Court
- B Laws made by the Supreme Court
- C Laws made and enforced by the Government
- D Laws made by the common people.

Answer: C

Question 28

For a missile launched with a velocity less than the earth's escape velocity, the total energy is

- A either positive or negative
- B Negative
- C Zero
- D Positive

Answer: B

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Question 29

Molybdenum deficiency affects the activity of :

- A All of the given options
- B Chlorate reductase
- C Nitrogenase
- D Nitrate reductase

Answer: D

Question 30

Waksman got the Nobel Prize for the discovery of :

- A Streptomycin
- B Chloromycetin
- C Neomycin
- D Penicillin

Answer: A

Question 31

The business in Stock Markets and other securities markets is regulated

- A Securities and Exchange Board of India
- B Sole Trade and Exchange Bank of India
- C State and Exchange Bank of India
- D Stock and Exchange Bank of India

Answer: A

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Question 32

Liberalism stands for

- A religious orthodoxy
- B a movement and an attitude
- C self-emancipation
- D freedom in social, political and economic aspects

Answer: D

Question 33

Heavy metals got their name because compared to other atoms they have

- A Higher densities
- B Higher atomic masses

C Higher atomic numbers

D Higher atomic radii

Answer: B

Question 34

Photo chemical smog is a resultant of the reaction among

A High concentration of NO, O₂, and CO in the evening

B CO, CO₂, and NO at low temperature.

C CO, O₂ and peroxy acetyl nitrate in the presence of Sunlight

D NO, O₂ and peroxy acetyl nitrate in the presence of Sunlight

Answer: D

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Question 35

The Liquidity Preference Theory of Interest was propounded by :

A J.M. Keynes

B David Ricardo

C Alfred Marshall

D Adam Smith

Answer: A

Question 36

Which cost is related to marginal cost?

A Variable Cost

B Implicit Cost

C Prime Cost

D Fixed Cost

Answer: A

Question 37

Fascism believes in the application of the principle of :

A Dictatorship

B Democracy

C Utilitarianism

D Totalitarianism

Answer: D

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Question 38

Autocracy means

- A Rule by few
- B Rule by King
- C Absolute rule by one
- D Rule by the representatives of the People

Answer: C

Question 39

When a helium atom loses an electron it becomes :

- A A negative helium ion
- B A proton
- C An alpha particle
- D A positive helium ion

Answer: D

Question 40

When one gene pair hides the effect of the other unit, the phenomenon is referred to as:

- A Epistasis
- B Mutation
- C None of the options
- D Dominance

Answer: A

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Question 41

The classical Dance of Andhra Pradesh is

- A Kuchipudi
- B Odissi
- C Bharatanatyam
- D Kathakali

Answer: A

Question 42

Who directed the film on the dacoit queen Phoolan Devi ?

- A Abbas Mastan
- B Shashi Kapoor
- C Shekhar Kapoor
- D Anil Kapoor

Answer: C

Question 43

PSW stands for

- A Program status word
- B Processor status word
- C Process status word
- D Primitive status word

Answer: A

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Question 44

The name of the upper house of the Indian Parliament is :

- A Senate
- B Rajya Sabha
- C House of Lords
- D Legislative Assembly

Answer: B

Question 45

G E F, an international aid giving agency has the full form

- A Global Environment Facility
- B Global Educational Fund
- C Global Economic Fund
- D Global Energy Fund

Answer: A

Question 46

Spring tides occur on

- A New moon day only
- B Full moon day as well as on new moon day
- C Full moon day only
- D The day when the moon's position is in its first quarter

Answer: B

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Question 47

Which one of the following is the correct sequence of ecosystem in the order of decreasing productivity?

- A Oceans, mangroves, lakes, grassland
- B Mangroves, oceans, grassland, lakes
- C Oceans, lakes, grassland, mangroves
- D Mangroves, grasslands, lakes, oceans

Answer: D

Question 48

Who is considered founder of the Gupta Empire ?

- A Srigupta
- B Samudra Gupta
- C Chandra Gupta I
- D Chandra Gupta II

Answer: A

Question 49

A Fuse wire is characterised by

- A High resistance and low melting point -
- B High resistance and high melting point
- C Low resistance and high melting point
- D Low resistance and low melting point

Answer: D

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Question 50

The technology used in the electronic printer is called

- A Micro array
- B Micro millimetric
- C Micro technology
- D Micro encapsulation

Answer: D

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English

Instructions

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

The public distribution system, which provides food at low prices, is a subject of vital concern. There is a growing realization that though India has enough food to feed its masses two square meals a day, the monster of starvation and food insecurity continues to haunt the poor in our country. Increasing the purchasing power of the poor through providing productive employment leading to rising income, and thus good standard of living is the ultimate objective of public policy. However, till then, there is a need to provide assured supply of food through a restructured, more efficient and decentralized public distribution system (PDS). Although the PDS is extensive – it is one of the largest such systems in the world it hasn't reached the rural poor and the remote places. It remains an urban phenomenon, with the majority of the rural poor still out of its reach due to lack of economic and physical access. The poorest in the cities and the migrants are left out, for they generally do not possess ration cards. The allocation of PDS supplies in big cities is larger than in rural areas. In view of such deficiencies in the system, the PDS urgently needs to be streamlined. Also, considering the large foodgrain production combined with food subsidy on one hand and the continuing slow starvation and dismal poverty of rural population on the other, there is a strong case for making PDS target-group oriented. By making PDS target-group oriented, not only the poorest and the neediest would be reached without additional cost but we can also reduce the overall costs incurred.

Question 51

Which of the following is true of public distribution system?

- A It has remained effective only in the cities.
- B It is unique in the world because of its effectiveness
- C It has reached the remotest corner of the country.
- D It has improved its effectiveness over the years.

Answer: A

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Question 52

The full form of PDS is

- A Private distribution system
- B Partial distribution system
- C Public distribution system
- D Party distribution system

Answer: C

Question 53

What according to the passage, would be the rationale of making the PDS target group oriented?

- A It will remove poverty.
- B It will motivate the target-group population to work more.
- C It will give food to the poorest section without additional cost.
- D It will abolish the imbalance of urban and rural sectors.

Answer: C

Question 54

The public distribution system, which provides food at..... is a subject of vital concern.

- A low prices
- B high prices
- C as per capita income
- D fair prices

Answer: A

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Question 55

What should be an appropriate step to make the PDS effective?

- A To reduce administrative cost.
- B To decrease the allotment of food grains.
- C To make it target-group oriented.
- D To increase the amount of foodgrain per ration card.

Answer: C

Instructions

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

Question 56

PLEBISCITE

- A Referendum
- B Reservation
- C Representation
- D Renunciation

Answer: A

Question 57

FRUGAL

- A Plain
- B Simple
- C Miserly
- D Economical

Answer: D

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Question 58

DIMINISH

- A Prohibit
- B Worsen
- C Reduce
- D Shorten

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 a, b: and c: which may improve the sentence. Choose the correct alternative. In case no improvement is needed, your answer is d.

Question 59

We do not believe in a dual policy of the company.

- A in this dual
- B in these dual
- C on these dual
- D No improvement

Answer: A

Explanation:

The correct answer is option -A.

`This' is a demonstrative pronoun.It is used to point out the object to which they refer to.

In sentence it already mentioning about policy.So to indicate the `Policy' (definite thing) we must use `This'.

Article `A' we use to refer indefinite person or thing spoken of.

Policy -It is singular form.So usage of `these' will be incorrect.So option B and C will get eliminated.

Question 60

This news is too good to be true .

- A cannot be true
- B so good that it should be true
- C No improvement
- D so good that it cannot be true

Answer: C

Explanation:

The given sentence is correct.

The meaning of phrase 'too good to be true' -so good that you cannot believe that such a situation is possible or can continue.

General Science Notes for SSC CGL

Question 61

The notorious criminal went to the police to go to prison .

- A submitted to the police
- B surrendered himself before the police
- C No improvement
- D gave himself tip for the police

Answer: B

Explanation:

The correct answer is option -B

Surrendered himself before the Police -means he hand over himself to the Police.

Himself -here act as a reflexive pronoun.

Reflexive pronoun -If the action of the subject reflects upon the doer,it is called as reflexive pronoun.

Question 62

If he has time he will telephone.

- A could
- B might
- C would
- D No improvement

Answer: D

Explanation:

Option D is the correct answer.

In if clause simple present tense is used so in main clause simple future tense should be used.

Hence, the given sentence is correct And no improvement is required.

Question 63

He met European lady at the conference who works for an NGO.

- A European lady who works for an NGO at the conference
- B No improvement
- C a European lady who works for an NGO, at the conference
- D an European lady at the conference who works for an NGO

Answer: C

Explanation:

The Correct answer is option -C.

The relative pronoun (who,whom,whose,that) must be used after the antecedent to which it is referring.

Ex- This is **the girl** whose name is Anita.

Here the girl is an antecedent. Whose is a relative pronoun which is used after the antecedent `She`.

Article `A` should be used before European lady.

Article A is used to represent the person or thing which are indefinite.

Here we will not use article`an` because we use `an` after words with vowel sounds.

European it sounds like yuropean.

We don't use article `an` simply because any word starts with vowel it should sound like a vowel.

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Question 64

I did not see you for a long time.

- A have not seen
- B saw
- C No improvement
- D have not been seeing

Answer: A

Explanation:

Option A is the correct answer.

Long time indicates present perfect tense so 'have/has +V3' should be used.

So the correct improvement is I have not seen for a long time.

Question 65

The glass figurine that was being shown in the store window appealed to me.

- A No improvement
- B that was on display
- C that was exhibited
- D that was advertised

Answer: B

Explanation:

The correct answer is option -B

Being -It is used to indicate present or past continuous tense.

If we go through context we can't use present or past continuous tense here.

So usage of being is incorrect here.

The correct construction will be - that was on display.

There are different usage of different words

-things are on display in a store window.

-things are exhibited in an exhibition

-In newspaper advertisement are placed.

Question 66

He is somehow tall for his age.,

A No improvement

B rather

C many

D much

Answer: B

Explanation:

Option B is the correct answer.

Rather (degree)- Somewhat, fairly. The given sentence conveys, the boy is somewhat tall for his age. Other options don't fit in the sentence grammatically.

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Question 67

The practice of starving the children in order to cure diarrhoea also aggravates the situation.

A starving child

B No improvement

C starve children

D starving children

Answer: B

Explanation:

The correct answer is option -B

No improvement is required.

Practice of starving the children in order to cure the diarrhoea will lead to loss of energy and lack of nutrients to fight the bacterial infection. Here the usage of tense is grammatically correct.

Question 68

She said that she was glad to be here that evening.

A to come here

- B to be there
- C to have been here
- D No improvement

Answer: B

Explanation:

The correct answer is option B

The sentence is in the past tense.

Here -It denotes the present time, this time, present situation.

There -at that point, that place.

So usage of here will be wrong.

Ex- I am glad to be here.

We are talking about present time

Ex- I was glad to be there on last Monday.

Here we are talking about past event.

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 69

You are required to give an explanation for your conduct within two days of the receipt of this letter.

- A No error
- B for your conduct
- C within two days of the receipt of this letter.
- D You are required to give an

Answer: C

Explanation:

Option C is the correct answer.

Part C contains error in it. within two days 'from' the receipt of this letter is the correct usage prepositions.

Instead of 'of' 'from' should be used.

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Question 70

The ruins of the spillway are a vital clue to the epic struggle that unfold as generations of Khmer engineers coped with a water system that grew complex and unruly.

- A coped with a water system that grew complex and unruly.
- B to the epic struggle that unfold as generations of Khmer engineers
- C The ruins of the spillway are a vital clue
- D No error

Answer: B

Explanation:

The correct answer is option - B

In the sentence, 'that' is a relative pronoun which refers to 'epic struggle' and it is a singular subject. So, a singular verb 'unfolds' must be used instead of 'unfold'.

Question 71

Bobby learnt the alphabets at the age of two.

- A No error
- B age of two
- C Bobby learnt the
- D alphabets at the

Answer: D

Explanation:

The correct answer is option -D

Replace 'alphabet' with 'alphabets'.

Here sentence implies that Bobby learnt the E alphabet (it includes letters A,B etc)

The meaning of alphabets is the elementary stages of any subject.

The basic difference between alphabet & alphabets is that

Alphabet -is singular & Alphabets is plural.

Question 72

The sum, and substance of this poem is as follows.

- A of this poem
- B No error
- C The sum and substance
- D is as follows

Answer: B

Explanation:

The given sentence is correct.

The sum and substance is the single expression which means the basic or general meaning of something, or essence /gist of something.

So use of verb 'Is' is correct.

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Question 73

I watched how the pianoist used her left hand.

- A I watched how
- B the pianoist
- C No error

D used her left hand

Answer: B

Explanation:

The error is in part - B

Replace 'Pianoist' with 'Pianist'.

Pianist means a person who plays the piano.

Instructions

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

Question 74

One who does not believe in the existence of God

A Atheist

B Theist

C Mystic

D Cynic

Answer: A

Question 75

To free someone from all blames

A Consolidate

B Fling

C Forbid

D Exonerate

Answer: D

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Question 76

That which cannot be effaced

A Illegible

B Indelible

C Invincible

D Affable

Answer: B

Question 77

A person who deliberately sets fire to a building

A Arsonist

- B Extortionist
- C Hijacker
- D Assassin

Answer: A

Question 78

One who makes an official examination of accounts

- A Auditor
- B Registrar
- C Creditor
- D Chartered Accountant

Answer: A

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Question 79

Conferred as an honor

- A Honorary
- B Honorable
- C Honorarium
- D Honorific

Answer: A

Question 80

The burial of a corpse

- A Internment
- B Interment
- C Interrogate
- D Interpose

Answer: B

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 81

He's as daft as a brush. Don't believe a word of what he says.

- A a liar

- B very funny
- C really silly
- D unreliable

Answer: C

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Question 82

I hope you will back me at the meeting.

- A criticise
- B speak after I do
- C follow
- D support

Answer: D

Question 83

A closefisted man does not know the significance of human life.

- A a poor man
- B a rich man
- C a miser
- D an ill-mannered man

Answer: C

Question 84

I shall always remember my alma mater with gratitude.

- A Institution where I got education
- B teacher who inspired me
- C mother's loving care
- D kindergarten days

Answer: A

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Question 85

I and my friend always go Dutch when we eat out.

- A drive together
- B pay for each other's meal

- C go together
- D divide the costs

Answer: D

Instructions

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

Question 86

She pipped her rival..... the gold medal

- A with
- B for
- C to
- D near

Answer: B

Explanation:

The correct answer is option -B

Pipped for -to defeat someone in a game or competition.

So usage of `for' is correct.

Other prepositions are contextually & grammatically incorrect.

Question 87

Work should be guided by some..... desire of altruism and

- A genuine ; philanthropy
- B false ; honesty
- C shallow ; ability
- D good ; liberty

Answer: A

Explanation:

The correct answer is option -A.

If we check the first replacement of option B & C, it is false, shallow which are not going with the context of the sentence.

False desire, shallow desire - superficial, baseless. Both the words have negative meaning or opposite meaning to Altruism.

Altruism -It means regard for others. Selflessness.

So we can't use shallow or false.

Good and liberty doesn't go well in 2nd blank.

Now coming to 1st Option

Genuine desire of altruism.

And philanthropy.

Philanthropy -charitable giving, charity. Benevolent altruism.

So option 1st is contextually & grammatically correct.

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Question 88

Ships are..... by giant engines.

- A dragged
- B sailed
- C pulled
- D driven

Answer: D

Explanation:

Option D is the correct answer.

Dragged -to pull along a surface Or to move slowly.

Sailed -To be impelled or driven forward by the action of wind upon sails, as a ship on water; to be impelled on a body of water by steam or other power

Pulled -To apply a force to (an object) so that it comes toward the person or thing applying the force.

Driven -To apply a force to (an object) so that it comes toward the person or thing applying the force.

So driven fits the sentence and making it meaningful.

Question 89

Krisda's storiesme very strangely.

- A effected
- B affected
- C changed
- D afflicted

Answer: B

Explanation:

The correct answer is option -B

Affected - influenced,or changed by something.moved ,touched

Meaning of the other options

1) Effected- to make or bring about,to implement.

2)Changed- to transform,to become something different,to replace,to exchange,alter,modify.

3) afflicted- to cause someone pain, suffering or distress,to make low or humble

If we look at the context (sentence) & options,only `Affected' fits well.

Question 90

By morning, the fury of the floods

- A ebbbed
- B receded
- C retired

D abated

Answer: D

Explanation:

The correct answer is option -D

Abated- to lessen in force,to moderate,to decrease in intensity or force.

The meaning of the other options-

1)ebbed- a low state,to flow back.

2) receded- to take back,to move back,to grant or yield again.

3)retired- to withdraw,to take away,having left employment.

If we take a look at the options,only option D go well with the blank

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Instructions

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

Question 91

URBANE

A Loud

B Native

C Crude

D Rural

Answer: C

Question 92

BOLD

A Timid

B Nervous

C Coy

D Fearful

Answer: A

Question 93

AUTHENTIC

A Genuine

B False

C Factual

D Real

Answer: B

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Instructions

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

The desert floras shame us with their cheerful adaptations to the seasonal limitations. Their whole duty is to flower and fruit, and they do it hardly, or with tropical luxuriance, as the rain admits. It is recorded in the report of the Death Valley expedition that after a year of abundant rains, on the Colorado desert was found a specimen of *Amaranthus* ten feet high. A year later the same species in the same place matured in the drought at four inches. Seldom does the desert herb attain the full stature of the type. Extreme aridity and extreme altitude have the same dwarfing effect, so that we find in the high Sierras and in Death Valley related species in miniature that reach a comely growth in mean temperatures.

Very fertile are the desert plants in expedients to prevent evaporation, turning their foliage edgewise toward the sun, growing silky hairs, exuding thick gum. The wind, which has a long sweep, harries and helps them. It rolls up dunes about the stocky stems, encompassing and protective, and above the dunes, which may be, as with the mesquite, three times as high as a man, the blossoming twigs flourish and bear fruit.

Question 94

What lesson do the desert floras have to teach us ?

- A how to live a long time
- B how to adapt to limitations
- C how to grow with grace.
- D how to grow in dry places.

Answer: B

Question 95

How does the wind keep the desert floras to grow?

- A by blowing the heat away
- B by rolling up protective sand dunes.
- C by blowing gently
- D by blowing the clouds away

Answer: B

Question 96

The desert plants face the danger of from extreme aridity and extreme altitude.

- A early death
- B loss of reproduction
- C painful growth
- D dwarfism

Answer: D

Question 97

The mesquite is a

- A a tribe of people
- B a type of desert animal
- C a sand dune
- D a desert flora

Answer: D

Question 98

What stops the desert floras performing their duty well ?

- A the desert sand
- B the rain
- C the people who pluck them
- D the sesert animals

Answer: B

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 99

- A coherant
- B commendation
- C tommorow
- D advicable

Answer: B

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Question 100

- A aneurysm
- B annonymous
- C disipate
- D carcass

Answer: A

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Reasoning

Instructions

For the following questions answer them individually

Question 101

Which single letter can be prefixed to the following words in order to obtain entirely new words? (Same letter has to be prefixed in all the five words of each.)

EAT OUR IS AS AT

- A H
- B S
- C C
- D B

Answer: A

Explanation:

Words : EAT OUR IS AS AT

If 'H' is prefixed to each of the word above, new words will be :

HEAT , HOUR , HIS , HAS , HAT

=> Ans - (A)

General Science Notes for SSC CGL

Question 102

Which one of the areas marked I - VII represents the urban educated who are not hardworking ? (Put Image)

- A I
- B III
- C IV
- D II

Answer: 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 103

1, 2, 2, 4, 3, 8, 7, 10, ?

- A 11
- B 13
- C 9
- D 8

Answer: A

Explanation:

It is a combination of 2 series, one at odd places and other at even places.

1) : 1,2,3,7, 11,12,13,17 (Difference is 1,1,4,1,1,4,...)

2) : 2,4,8,10, 14,16,20 (Difference is 2,4,2,4,2,...)

=> Ans - (A) : 11

Question 104

0, 7, 26, 63, ?

A 123

B 87

C 96

D 124

Answer: D

Explanation:

let the missing term be y

here the given series is 0, 7, 26, 63, y

as we can see that :

$$0 = 0^2 - 1$$

$$7 = 2^3 - 1$$

$$26 = 3^3 - 1$$

$$63 = 4^3 - 1$$

as we can see that all number are equal to cub of consecutive whole numbers minus 1 and hence ,

$$y = 5^3 - 1 = 124$$

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Instructions

For the following questions answer them individually

Question 105

If you start running from a point towards North and after covering 4 kms. you turn to your left and run 5 kms. and then again turn to your left and run 5 kms. and then turn to left again and run another 6 kms and before finishing you take another left turn and run 1 km., then answer the following question based on this information.

From the finishing point if you have to reach the point from where you started, in which direction will you have to run ?

A West

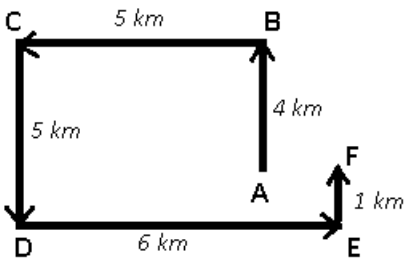
B East

C South

D North

Answer: A

Explanation:



Let us start from point A, and run north for 4 km to reach B, then turn left and run for 5 km and reach C, then again turn left and run for 5 km, again a left turn for 6 km and finally stop at point F after running for 1 km.

Now, to reach the starting point, we need to run 1 km to the west.

=> Ans - (A)

Instructions

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

Question 106

- | | | |
|----------------|----------------|---------------|
| 18 | 21 | 24 |
| 3 | 9 | 3 |
| $\frac{6}{21}$ | $\frac{4}{26}$ | $\frac{8}{?}$ |

- A 24
- B 27
- C 29
- D 22

Answer: C

Explanation:

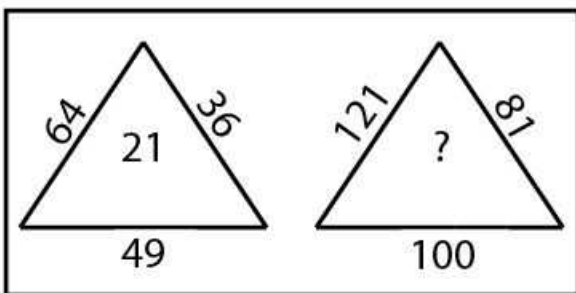
The pattern followed is : Sum of first row and the positive difference between second and third rows.

=> $18 + (6-3) = 21$ and $21 + (9-4) = 26$

Similarly, $24 + (8-3) = 24 + 5 = 29$

=> Ans - (C)

Question 107



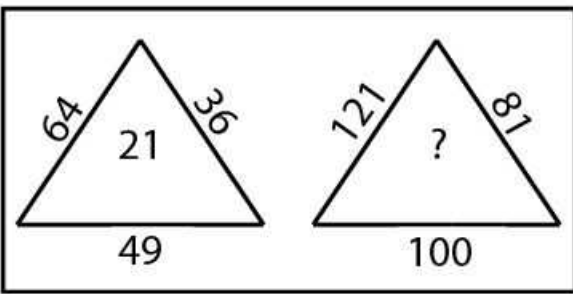
- A 10
- B 20

C 30

D 40

Answer: C

Explanation:



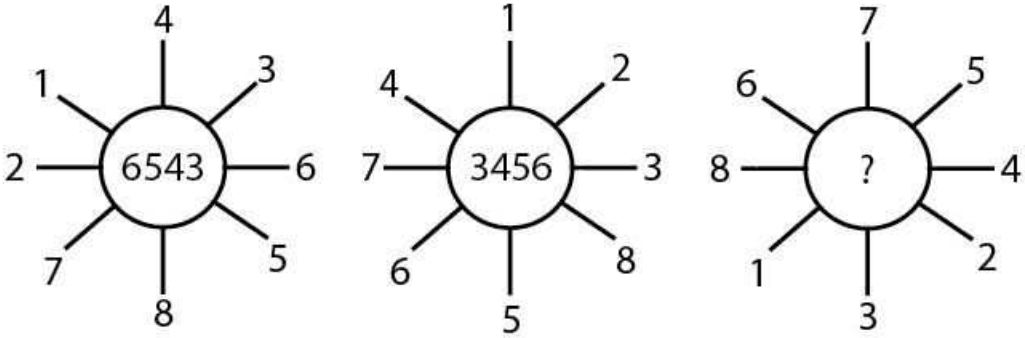
in this question let the missing term be y

here , $21 = \sqrt{(64)} + \sqrt{(49)} + \sqrt{(36)}$

hence , $y = \sqrt{(121)} + \sqrt{(100)} + \sqrt{(81)} = 30$

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Question 108



A 6543

B 5634

C 5364

D 3564

Answer: A

Question 109

I	25	15	40	8
II	65	25	90	[?]
III	45	15	60	12

A 18

B 12

C 24

D 6

Answer: A

Explanation:

I	25	15	40	8
---	----	----	----	---

II	65	25	90	[?]
----	----	----	----	-----

III	45	15	60	12
-----	----	----	----	----

let the missing term be y

here terms in 4th column are equal to terms in 3rd column divided by 5

$$8 = 40 / 5$$

$$12 = 60 / 5$$

$$\text{and hence, } y = 90 / 5 = 18$$

Question 110

2	4	2
---	---	---

3	9	3
---	---	---

4	16	4
---	----	---

8	64	?
---	----	---

A 16

B 8

C 24

D 9

Answer: B

Explanation:

2	4	2
---	---	---

3	9	3
---	---	---

4	16	4
---	----	---

8	64	?
---	----	---

let the missing term be y

here in every column the 4th term is product of 1st and 2nd term in every column

$$8 = 2 \times 4$$

$$64 = 4 \times 16$$

$$\text{and hence } y = 2 \times 4 = 8$$

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Instructions

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

Question 111

$$\sqrt{AFI} = M : \sqrt{ADD} = L :: \sqrt{ABA} ?$$

- A I
- B N
- C O
- D K

Answer: D

Explanation:

If we assign numbers to the alphabets such as A = 1, B = 2, C = 3 and so on, we get :

$$\sqrt{AFI} = \sqrt{1 + 6 + 9} = \sqrt{16} = 4 = 1 + 3 \equiv 13 = M$$

$$\text{and } \sqrt{ADD} = \sqrt{1 + 4 + 4} = \sqrt{9} = 3 = 1 + 2 \equiv 12 = L$$

$$\text{Similarly, } \sqrt{ABA} = \sqrt{1 + 2 + 1} = \sqrt{4} = 2 = 1 + 1 \equiv 11 = K$$

=> Ans - (D)

Question 112

$$16 : 22 :: 36 : ?$$

- A 44
- B 24
- C 26
- D 46

Answer: A

Explanation:

$$\text{Expression} = 16 : 22 :: 36 : ?$$

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

$$\text{Eg} = 4^2 : 4^2 + 4 + 2 = 16 : 22$$

$$\text{Similarly, } 36 = 6^2$$

$$\text{Thus, } 6^2 + 6 + 2 = 36 + 8 = 44$$

=> Ans - (A)

Question 113

$$\text{PALAEOLOGY : FOSSIL} :: \text{PHRENOLOGY} : ?$$

- A SKULL
- B THYROID
- C PANCREAS
- D LUNGS

Answer: A

Explanation:

Palaeontology is the branch of science concerned with fossil, similarly Phrenology is the study of skull.

=> Ans - (A)

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Question 114

9 : 50 :: ?

A 22 : 110

B 18 : 190

C 15 : 225

D 20 : 105

Answer: D

Explanation:

Expression = 9 : 50 :: ?

The pattern followed is = $n : 5n + 5$

Eg = $9 : 5(9) + 5 = 9 : 50$

Similarly, $20(5) + 5 = 100 + 5 = 105$

=> Ans - (D)

Question 115

MIKE : OGMC : CIAD : ?

A EGCB

B EICB

C AJCF

D ENCF

Answer: A

Explanation:

Expression = MIKE : OGMC

The pattern followed is =

M	I	K	E
(+2)	(-2)	(+2)	(-2)
O	G	M	C

Similarly, for CIAD :

C	I	A	D
(+2)	(-2)	(+2)	(-2)
E	G	C	B

=> Ans - (A)

Instructions

For the following questions answer them individually

Question 116

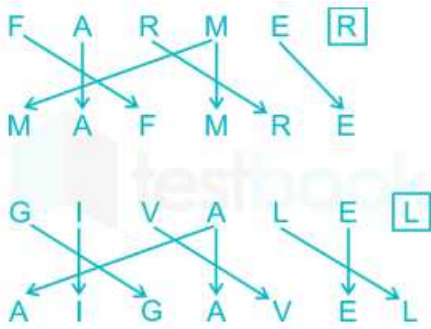
In a certain code language FARMER is written as MAFMRE, in that code language which word will be written as GIVALEL ?

- A AIGALE
- B AIGAVEL
- C VELAIGL
- D VIALEGL

Answer: B

Explanation:

The pattern followed is :

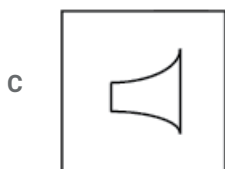
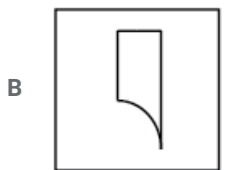
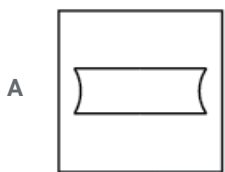
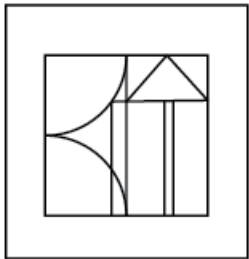


=> Ans - (B)

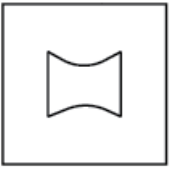
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Question 117

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

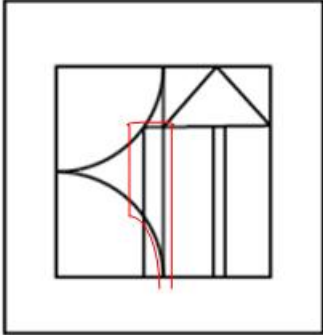


D



Answer: B

Explanation:



Hence , we can obtain-

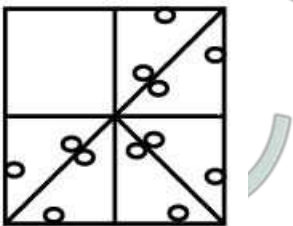


Therefore, Option B is correct.

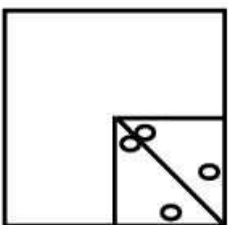
Instructions

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

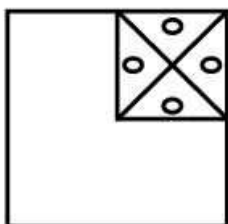
Question 118



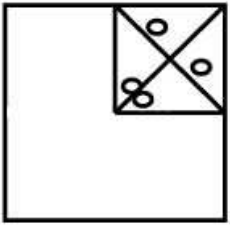
A



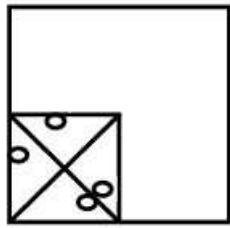
B



C

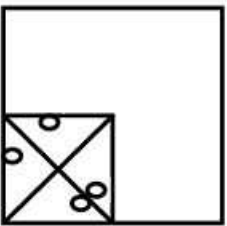


D

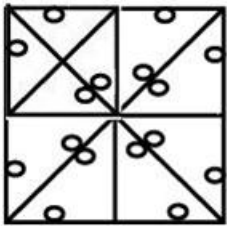


Answer: D

Explanation:

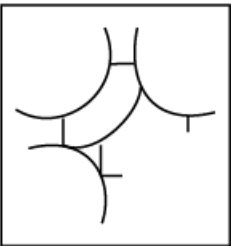


fits the figure.

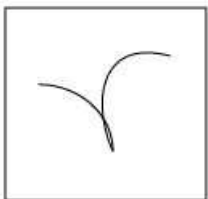


Hence, Option D is correct.

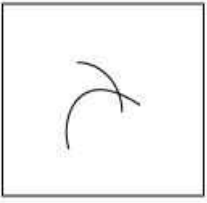
Question 119



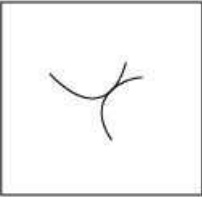
A



B



C



D

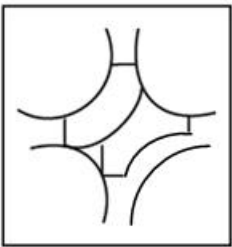


Answer: D

Explanation:



fits the figure.



Hence, Option D is correct.

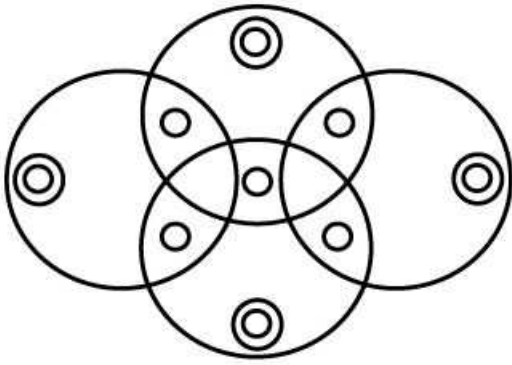
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Instructions

For the following questions answer them individually

Question 120

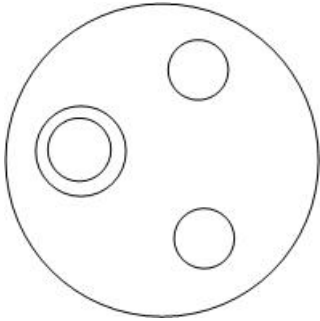
How many circles are there in this figure ?



- A 16
- B 13
- C 17
- D 22

Answer: C

Explanation:



In above figure, total no. of circles are 5.

Hence, no. of circles in the figure given in question = $5 \times 4 - 4 + 1 = 17$ (4 small circles are common and 1 circle which is common to 2 circles is included)

Therefore, Option C is correct.

Question 121

From the given alternative words, select the word which can not be formed using the letters of the given word: ENVIRONMENT

- A MOVE
- B ENTER
- C EMINENT
- D ENTRANCE

Answer: D

Explanation:

The word ENVIRONMENT does not contain any 'C', and thus the word 'Entrance' cannot be formed.

=> Ans - (D)

Instructions

In the following questions, two statements are given followed by two conclusions/assumptions, 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/assumptions can definitely be drawn from the given statement. Indicate your answer.

Question 122

Statements :

- I. Some men are good.**
- II. Some men are wise.**

Conclusions :

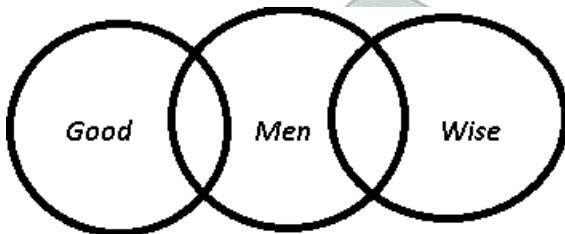
- I. Some wise men are good.**
- II. Some good men are wise.**

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

Answer: C

Explanation:

The venn diagram for above statements is :



Conclusions :

- I. Some wise men are good = false**
- II. Some good men are wise = false**

Thus, neither I nor II follows

=> Ans - (C)

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Question 123

Statements :

- I. All poets are day dreamers.**
- II All painters are day dreamers.**

Conclusions :

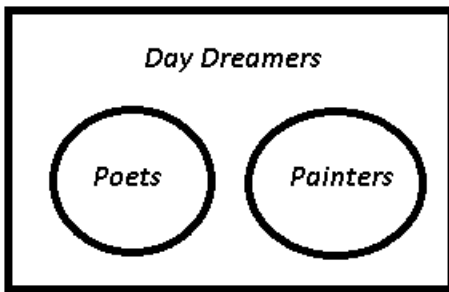
- I. All painters are poets.**
- II. Some day dreamers are not painters**

- A** Both I and II follow
- B** Neither I nor II follows
- C** Only I follows.
- D** Only II follows

Answer: B

Explanation:

The venn diagram for above statements is :



Conclusions :

- I. All painters are poets = It's possible but not definite, thus false
- II. Some day dreamers are not painters = It's possible but not definite, thus false

Thus, neither I nor II follows

=> Ans - (B)

Instructions

For the following questions answer them individually

Question 124

Six girls A, B, C, D, E, F are sitting on the ground. A and B belong to Ruby House, while the rest belong to Emerald House. D and F are tall, while others are short. C and D are wearing glasses while others are not wearing. Which girl of Emerald House is tall and is wearing glass ?

A C

B A

C D

D B

Answer: C

Explanation:

According to the given information in the question, A, B, C, D, E, F are sitting on the ground .

A,B-Ruby House.

C,D,E,F-Emerald House.

D,F-Tall.

A,B,C,E-Short.

C,D-Wear Glasses.

A,B,E,F-Don't Wear Glasses.

Therefore, Girl who belongs to Emerald House ,is tall and wears glasses is D.

Hence, Option C is correct.

Instructions

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

Question 125

A NOSE

B EARS

C VESTIBULAR

D EYES

Answer: C

Explanation:

Nose, ears and eyes provide some of the senses of the human body and are visible from outside, but vestibular is the inner part of an ear.

=> Ans - (C)

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Question 126

A (69, 23)

B (56, 19)

C (108, 36)

D (42, 14)

Answer: B

Explanation:

If we divide the first number by second number, we get :

$$(A) : \frac{69}{23} = 3$$

$$(B) : \frac{56}{19} = 2.95$$

$$(C) : \frac{108}{36} = 3$$

$$(D) : \frac{42}{14} = 3$$

=> Ans - (B)

Question 127

32, 13, 51, 24, 46, 20, 72, 45

A 13

B 46

C 20

D 72

Answer: A

Explanation:

Here all numbers except 13 are composite. Hence 13 is the odd one out.

=> Ans - (A)

Question 128

A Y U Q M

B S O K G

C R N J F

D T P L I

Answer: D

Explanation:

(A) : Y (-4 letters) = U (-4 letters) = Q (-4 letters) = M

(B) : S (-4 letters) = O (-4 letters) = K (-4 letters) = G

(C) : R (-4 letters) = N (-4 letters) = J (-4 letters) = F

(D) : T (-4 letters) = P (-4 letters) = L (-3 letters) = I

=> Ans - (D)

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Instructions

For the following questions answer them individually

Question 129

Some equations are solved on the basis of a certain system. On the same basis find out the correct answer for the unsolved equation.

$$4 - 5 - 1 = 514, 3 - 5 - 6 = 563, 0 - 6 - 8 = ?$$

A 680

B 860

C 068

D 806

Answer: A

Explanation:

$$4 - 5 - 1 = 514.$$

$$a - b - c = bca.$$

$$3 - 5 - 6 = 563.$$

$$a - b - c = bca.$$

Similarly,

$$0 - 6 - 8 = 680. (a - b - c = bca)$$

Hence, Option A is correct.

Question 130

A man takes 6 km. distance to go around the rectangular area. If the area of the rectangle is 2 sq. km., find the difference between length and breadth.

A 2 km.

B 0.5 km.

C 1 km.

D 0.75 km.

Answer: C

Explanation:

Let length of rectangle be 'l' m.

Let breadth of rectangle be 'b' m.

According to question,

$$2(l+b)=6$$

$$l+b=3. \text{ (eq 1)}$$

$$\text{and } lb=2. \text{ (eq 2)}$$

Solving above equations we get,

$$l=2 \text{ and } b=1.$$

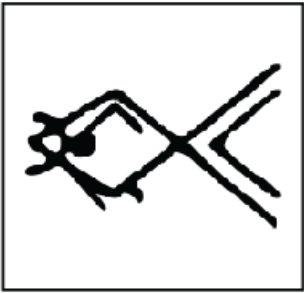
Hence length and breadth of rectangle are 2 km and 1 km correspondingly.

Difference between length and breadth = $2 - 1 = 1$ km.

Hence, Option C is correct.

Question 131

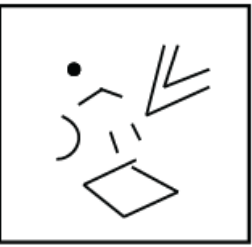
From the answer figures, select the cut pieces from which the question figure is formed/made.



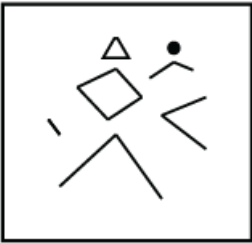
A



B



C

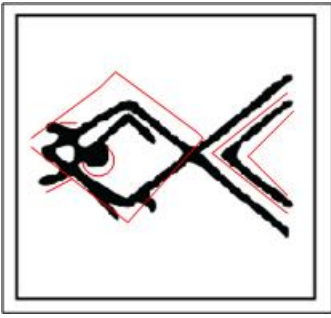


D



Answer: A

Explanation:



Hence, with the help of above we can get parts as-



Therefore, Option A is correct.

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Question 132

If a mirror is placed on the line MN, which of the answer figures is the right image of the given figure ?



A



B



C



D

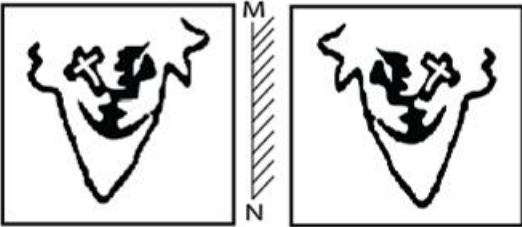


Answer: C

Explanation:



fits the figure.



Hence, Option C is correct.

Question 133

Identify which one of the given alternatives will be another member of the group of that class.
Lucknow, Patna, Bhopal, Jaipur, ?

- A Shimla
- B Mysore
- C Pune
- D Indore

Answer: A

Explanation:

Lucknow, Patna, Bhopal and Jaipur are capitals of UP, Bihar, MP and Rajasthan respectively.

The only capital city among the options is Shimla which is the capital of Himachal Pradesh.

=> Ans - (A)

Question 134

In the question given below, the symbols used are as

Δ = equal to

\otimes = not equal to

$+$ = greater than

\emptyset = less than

$-$ = not less than

O = not greater than

Read the question and mark the correct response.

If $X - Y - Z$ then it does not.

A $X \otimes Y \Delta Z$

B $X - Y + Z$

C $X + Y - Z$

D $X \emptyset Y + Z$

Answer: D

Explanation:

Given : $X - Y - Z \equiv X \geq Y \geq Z$

(A) : $X \otimes Y \Delta Z \equiv X \neq Y = Z$ = can be true

(B) : $X - Y + Z \equiv X \geq Y > Z$ = can be true

(C) : $X + Y - Z \equiv X > Y \geq Z$ = can be true

(D) : $X \emptyset Y + Z \equiv X < Y > Z$ = false

=> Ans - (D)

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Question 135

Arrange these letters of each group to make a meaningful word and then find the odd one out.

A VEENS

B VIDEID

C ORFU

D GHIET

Answer: B

Explanation:

Meaningful words :

(A) : VEENS = SEVEN

(B) : VIDEID = DIVIDE

(C) : ORFU = FOUR

(D) : GHIET = EIGHT

Apart from second option, all are numbers, hence it is the odd one.

=> Ans - (B)

Question 136

In a certain code language '481' means 'sky is blue', '246' means 'sea is deep' and '698' means 'sea looks blue'. What number is the code for 'blue'?

- A 8
- B 6
- C 1
- D 9

Answer: A

Explanation:

The common word in the first two statements is 'is' = 4

And the common word in the first and last statements is 'blue' = 8

=> Ans - (A)

Question 137

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



A



B



C



D



Answer: B

Explanation:



From above figure we can obtain parts as-



Hence, Option B is correct.

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Question 138

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. 'A' can be represented by 01, 14 etc. and 'E' can be represented by 55, 66 etc. Similarly, you have to identify the set for the word 'ORGAN'

MATRIX I

	0	1	2	3	4
0	P	A	G	R	Z
1	G	R	Z	P	A
2	Z	P	A	G	R
3	A	G	R	Z	P
4	R	Z	P	A	G

MATRIX II

	5	6	7	8	9
5	E	M	L	N	O
6	L	E	O	M	N
7	O	N	E	L	M
8	N	O	M	E	L
9	M	L	N	O	E

- A 75, 03, 11, 22, 76
- B 86, 40, 23, 14, 96
- C 98, 03, 44, 22, 58
- D 67, 22, 31, 58, 22

Answer: C

Explanation:

From matrix I and matrix II,
98=O.
03=R.
44=G.
22=A.
58=N.
Hence Option C is correct.

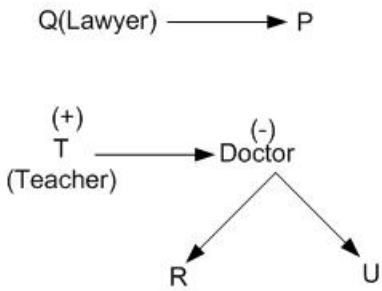
Question 139

P, Q, R, S, T, U are 6 members of a family in which there are two married couples. T, a teacher is married to a doctor who is mother of R and U. Q, the lawyer is married to P - P has one son and one grandson. Of the two married ladies one is a house wife. There is also one student and one male engineer in the family. Which of the following is true about the grand-daughter of the family ?

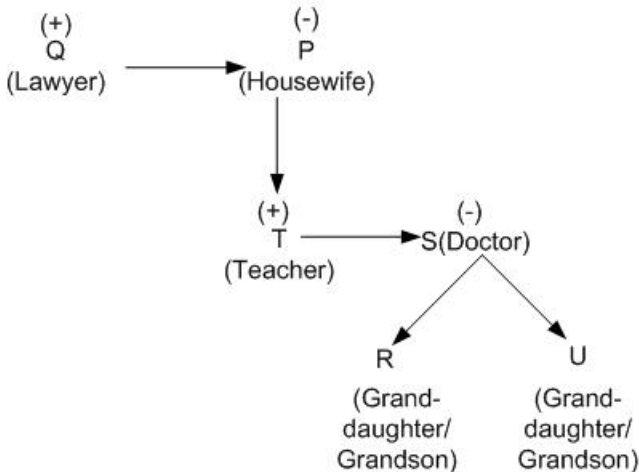
- A She is a lawyer
- B She is an engineer
- C She is a student
- D She is a doctor

Answer: C

Explanation:



One couple is QP.
Now, R and U are the children of T. So, the other couple is TS.
T is a teacher.
S is a female doctor.
Q is a lawyer.
Clearly, P is a housewife and hence a female.
So, Q is male lawyer.
S is the mother of R and U.
P has one son and one grandson.
Clearly, T is the son of P and R or U is the grandson.

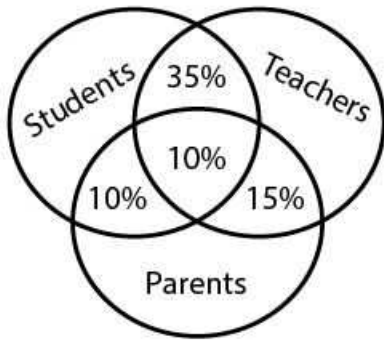


The grandson is a male engineer and the grand-daughter is a student.

Therefore, Option C is correct.

Question 140

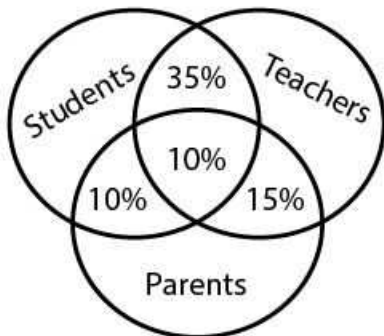
In the given figure 10% are students and parents, and the 10% are students, teachers and parents, 15% are teachers and parents. 35% are students and teachers. How many percentage are only teachers, parents and students.



- A 45, 40, 65
- B 40, 65, 45
- C 40, 45, 65
- D 65, 40, 45

Answer: B

Explanation:



Every subset is taken as 100% when it is to be taken as a whole
Then Percentage of only teachers = $100\% - (35\% + 10\% + 15\%) = 40\%$
Similarly,
Percentage of only parents = $100\% - (10\% + 10\% + 15\%) = 65\%$
Percentage of only students = $100\% - (35\% + 10\% + 10\%) = 45\%$.
Hence, the option B is correct.

SSC CGL Important Questions PDF

Instructions

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

Question 141

adb _ ac _ da_cddcb _ dbc _ cbda

- A bccba
- B ccbba
- C cbbaa

D bbcad

Answer: C

Explanation:

Expression : adb _ ac _ da_cddcb _ dbc _ cbda

The pattern is that in a group of 4 letters, there is a combination of first four alphabets, i.e. 'a,b,c,d'.

=> adb~~c~~ ac~~b~~d ab~~c~~d dc~~b~~a db~~c~~a cb~~d~~a

=> Ans - (C)

Question 142

a_b_ca_b_c_a_cc

A acbcab

B ababca

C acacab

D ababac

Answer: C

Explanation:

Expression : a_b_ca_b_c_a_cc

In a group of 5 letters, the term 'aabcc' is repeated.

= aabcc aabcc aabcc

=> Ans - (C)

Instructions

For the following questions answer them individually

Question 143

In a certain code, LUTE is written as MUTE and GATE is written as HATE, then how BLUE will be written in that code ?

A CLUE

B FLUE

C FLUD

D GLUE

Answer: A

Explanation:

The pattern followed is that in each word, the first letter is replaced by the next alphabet in the English alphabetical series, and rest of the letters are written as it is.

Eg : L (+1 letter) = M and UTE = UTE, thus LUTE <=> MUTE

and G (+1 letter) = H and ATE = ATE, thus GATE <=> HATE

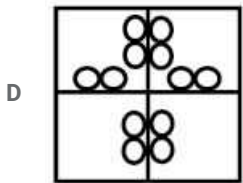
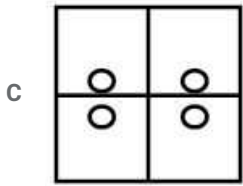
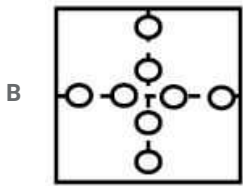
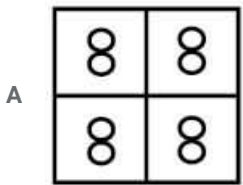
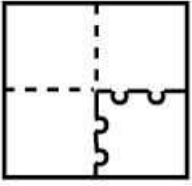
Similarly, B (+1 letter) = C and LUE = LUE, thus BLUE <=> CLUE

=> Ans - (A)

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Question 144

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

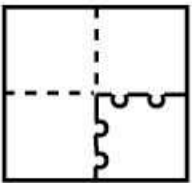


Answer: B

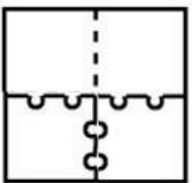
Explanation:

After folding and cutting the paper, we get-

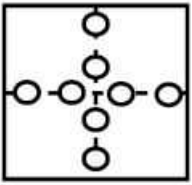
Stage 1,



Stage 2,



Stage 3,



Hence, Option B is correct.

Instructions

In the following questions, which one of the given responses would be a meaningful order of the following?

Question 145

1. Crop
2. Root
3. Stem
4. Seed
5. Flower

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

Answer: D

Explanation:

The correct order to plant a flower is that first a root generates from a seed, which further grows a stem, which bears a flower and then the crop.

= Seed -> Root -> Stem -> Flower -> Crop

≡ 4 2 3 5 1

=> Ans - (D)

Question 146

1. Frog
2. Eagle
3. Grasshopper
4. Snake
5. Grass

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

Answer: C

Explanation:

The correct order of a food chain is :

= Grass -> Grasshopper -> Frog -> Snake -> Eagle

≡ 5, 3, 1, 4, 2

=> Ans - (C)

General Science Notes for SSC CGL

Instructions

For the following questions answer them individually

Question 147

Identify the pair which 'DOES NOT' exhibit the same relationship as the Capitalised pair : ETYMOLOGY : WORDS

- A PSYCHOLOGY : MIND
- B ANATOMY : BODY
- C ARCHAEOLOGY : ANTIQUES
- D PHILOSOPHY : LANGUAGE

Answer: D

Explanation:

Etymology means the origin of words. Psychology is the study of mind.

Anatomy is the study of body and Archaeology is the study of history or antiques.

But, philosophy is the study of reality and knowledge and not language.

=> Ans - (D)

Question 148

Name a single letter that can be suffixed to the following words to form new words?

HAT BAR BAT PIN BATH

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

Answer: D

Explanation:

Expression : HAT BAR BAT PIN BATH

If 'E' is suffixed to each of the word above, new words will be :

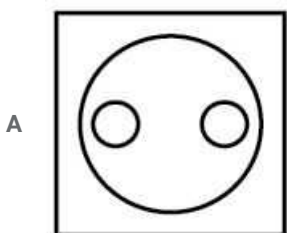
= Hate, Bare, Bate, Pine, Bathe

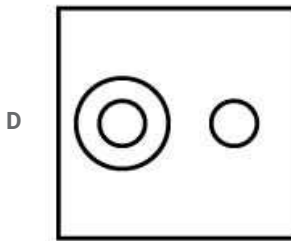
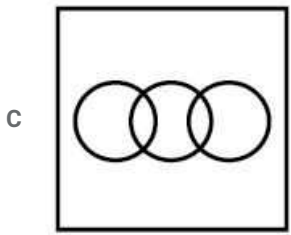
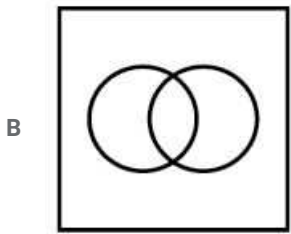
=> Ans - (D)

Question 149

Identify the diagram that best represents the relationship among the classes given below:

Soda Water, Mineral Water, Liquid

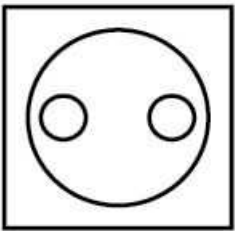




Answer: A

Explanation:

Soda water and mineral water comes under the category of liquid, but they are different from each other. The diagram that best describes the relation is :



=> Ans - (A)

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Question 150

Sohan drove 15 kms. to the west from his house, then turned left and walked 20 kms. He then turned East and walked 25 kms. and finally turning left covered 20 kms. How far he is from his house?

A 5 Kms.

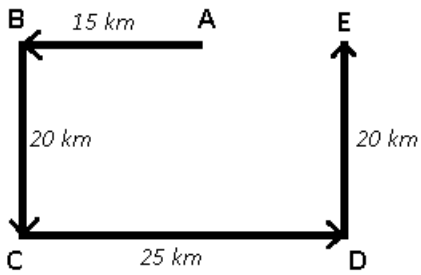
B 40 Kms.

C 10 Kms.

D 80 Kms.

Answer: C

Explanation:



Let Sohan started from point A, and travelled west for 15 km to reach B, then he turned left and walked for 20 km till he reach point C, he then turned east to walk 25 km and finally stopped at point E.

Thus, $AE = 25 - 15 = 10$ km

=> Ans - (C)

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Quant

Instructions

For the following questions answer them individually

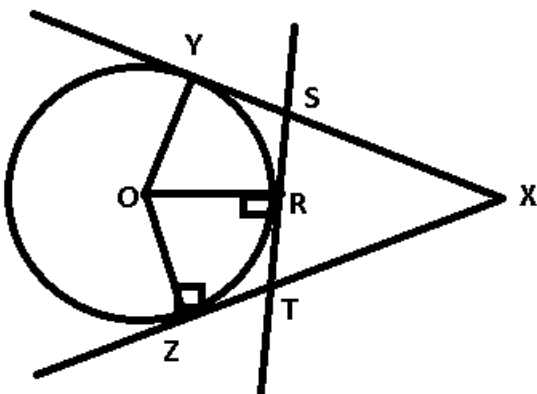
Question 151

XY and XZ are tangents to a circle, ST is another tangent to the circle at the point R on the circle, which intersects XY and XZ at S and T respectively. If $XY = 15$ cm and $TX = 9$ cm, then RT is

- A 4.5 cm
- B 7.5 cm
- C 6 cm
- D 3 cm

Answer: C

Explanation:



Given : $XY = 15$ and $XT = 9$

To find : $RT = ?$

Solution : Here, XY and XZ are tangents from the same point, so they must be equal.

=> $XZ = XY = 15$

Also, $ZT = XZ - XT = 15 - 9$

$$\Rightarrow ZT = 6 \text{ cm}$$

Now, ZT and RT are tangents from the same point, so they are also equal.

$$\Rightarrow ZT = RT = 6 \text{ cm}$$

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Question 152

Pipe A can fill a tank in 6 hours and pipe B can fill it in 4 hours. If they are opened on alternate hours and if pipe A is opened first, in how many hours, the tank shall be full ?

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

Answer: D

Explanation:

$$\text{A's work in 1 hour} = \frac{1}{6}$$

$$\text{B's work in 1 hour} = \frac{1}{4}$$

$$\text{(A+B)'s 2 hour's work when opened alternatively} = \frac{1}{6} + \frac{1}{4} = \frac{5}{12}$$

$$\text{Now, (A+B)'s 4 hour's work when opened alternatively} = \frac{5}{12} * 2 = \frac{5}{6}$$

$$\Rightarrow \text{Remaining part} = \left(1 - \frac{5}{6}\right) = \frac{1}{6}$$

Now, it is A's turn and it fills $\frac{1}{6}$ part in 1 hour.

\therefore Total time taken to fill the tank = (4+1) = 5 hours

Question 153

The value of $\tan 1^\circ \tan 2^\circ \tan 3^\circ \dots \tan 89^\circ$ is

- A 1
- B -1
- C 0
- D None of the options

Answer: A

Explanation:

Expression : $\tan 1^\circ \tan 2^\circ \tan 3^\circ \dots \tan 88^\circ \tan 89^\circ$

$$\because \tan(90^\circ - \theta) = \cot \theta$$

$$\Rightarrow \tan 89^\circ = \tan(90^\circ - 1^\circ) = \cot 1^\circ$$

Similarly, $\tan 88^\circ = \cot 2^\circ$ and so on till $\tan 46^\circ = \cot 44^\circ$

$$\Rightarrow (\tan 1^\circ \tan 2^\circ \tan 3^\circ \dots \tan 45^\circ \dots \cot 3^\circ \cot 2^\circ \cot 1^\circ)$$

Using, $\tan \theta \cot \theta = 1$ and $\tan 45^\circ = 1$

$$\Rightarrow 1 * 1 = 1$$

Question 154

If $x + \frac{1}{x} = 1$ then the value of $\frac{x^2+3x+1}{x^2+7x+1}$

- A 1
- B $\frac{3}{7}$
- C $\frac{1}{2}$
- D 2

Answer: C

Explanation:

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

$$\Rightarrow x^2 + 1 = x \text{ -----Eqn(1)}$$

To find : $\frac{x^2+3x+1}{x^2+7x+1}$

$$\begin{aligned} & \frac{(x^2+1)+3x}{(x^2+1)+7x} \end{aligned}$$

Using eqn(1), we get :

$$\begin{aligned} & \frac{x+3x}{x+7x} = \frac{4}{8} \\ & = \frac{1}{2} \end{aligned}$$

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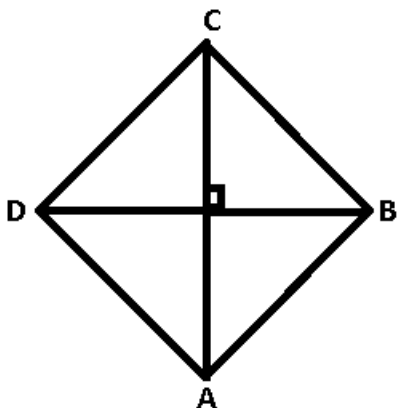
Question 155

In a rhombus ABCD, $\angle A = 60^\circ$ and AB = 12 cm. Then the diagonal BD is

- A 10 cm
- B 24 cm
- C 6 cm
- D 12 cm

Answer: D

Explanation:



Given : $\angle A = 60^\circ$ and AB = 12 cm

To find : $BD = ?$

Solution : Since, all the sides of a rhombus are equal, $\Rightarrow AB = AD$

$$\Rightarrow \angle ABD = \angle ADB$$

Now, in $\triangle ABD$

$$\Rightarrow \angle ABD + \angle ADB + \angle A = 180^\circ$$

$$\Rightarrow 2\angle ABD = 120^\circ$$

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

$\Rightarrow ABD$ is equilateral triangle.

$$\Rightarrow AB = AD = BD = 12 \text{ cm}$$

Question 156

The printed price of an article is 40% higher than its cost price. Then the rate of discount such that he gains 12% profit is

- A 21%
- B 15%
- C 20%
- D 18%

Answer: C

Explanation:

Let C.P. = $100x$

$$\text{Markup\%} = 40\% \Rightarrow \frac{40}{100} * 100x = 40x$$

$$\Rightarrow \text{Marked price} = 100x + 40x = 140x$$

Profit % = 12%

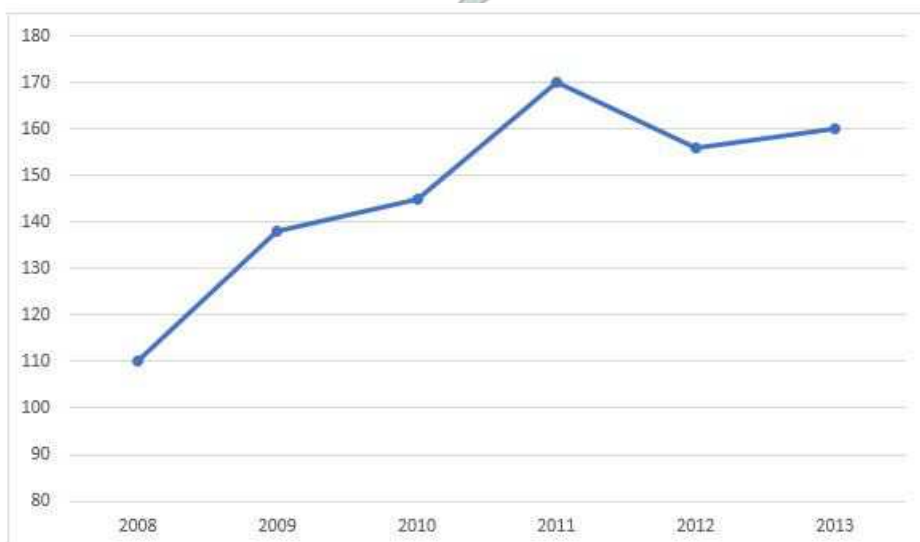
$$\text{Profit} = \frac{12}{100} * 100x = 12x$$

$$\Rightarrow \text{S.P.} = 100x + 12x = 112x$$

$$\text{Discount \%} = \frac{140x - 112x}{140x} * 100 = 20\%$$

Instructions

Study the following frequency polygon and answer the questions. Given a line graph showing the number of students passed in Higher Secondary Examination in a school over the years 2008 to 2013.



Question 157

The average of passed students in the years 2008, 2009, 2012 approximately is

- A 134.32
- B 134.41
- C 134.56
- D 134.67

Answer: D

Explanation:

No. of passed students in 2008 = 110

No. of passed students in 2009 = 138

No. of passed students in 2012 = 156

=> Total no. of students passed in 2008, 2009 & 2012 = $110+138+156 = 404$

=> Average students passed over the three years = $404/3 = 134.67$

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Question 158

The increase in percentage of passed students from 2008 to 2011 approximately is

- A 55%
- B 50.5%
- C 54.5%
- D 53.05%

Answer: C

Explanation:

No. of students passed in 2008 = 110

No. of passed students in 2011 = 170

=> % increase = $\frac{170-110}{110} * 100 = 54.54\%$
= ~54.5%

Question 159

The decrease in percentage of passed students from 2011 to 2012 approximately is

- A 8.25%
- B 8.27%
- C 8.24%
- D 8.22%

Answer: C

Explanation:

No. of students passed in 2011 = 170

No. of passed students in 2012 = 156

$$\Rightarrow \% \text{ decrease} = \frac{170-156}{170} * 100 = 8.235\%$$
$$= \sim 8.24\%$$

Instructions

For the following questions answer them individually

Question 160

If $\frac{\cos \alpha}{\sin \beta} = n$ and $\frac{\cos \alpha}{\cos \beta} = m$ then the value of $\cos^2 \beta$ is

A $\frac{m^2}{m^2+n^2}$

B $\frac{1}{m^2+n^2}$

C $\frac{n^2}{m^2+n^2}$

D 0

Answer: C

Explanation:

$$\frac{\cos \alpha}{\sin \beta} = n$$

$$\Rightarrow \cos \alpha = n \sin \beta$$

and $\frac{\cos \alpha}{\cos \beta} = m$

$$\Rightarrow \cos \alpha = m \cos \beta$$

Comparing above equations, we get :

$$\Rightarrow n \sin \beta = m \cos \beta$$

Squaring both sides :

$$\Rightarrow n^2 \sin^2 \beta = m^2 \cos^2 \beta$$

$$\Rightarrow n^2 (1 - \cos^2 \beta) = m^2 \cos^2 \beta$$

$$\Rightarrow n^2 = (n^2 + m^2) \cos^2 \beta$$

$$\Rightarrow \cos^2 \beta = \frac{n^2}{m^2+n^2}$$

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Question 161

The list price of a book is Rs. 100. A dealer sells three such books for Rs. 274.50 after allowing discount at a certain rate. Find the rate of discount.

A 8.16%

B 8.5%

C 8.34%

D 8.33%

Answer: B

Explanation:

List price of 1 book = 100

S.P. of 3 books = 274.50

=> S.P. of 1 book = $274.5/3 = 91.5$

=> Discount % = $\frac{100-91.5}{100} * 100$
= 8.5%

Question 162

If PQRS is a rhombus and $\angle SPQ = 50^\circ$, then $\angle RSQ$ is

A 55°

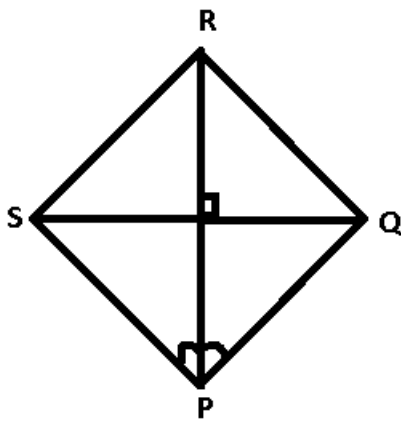
B 65°

C 75°

D 45°

Answer: B

Explanation:



Given : $\angle SPQ = 50^\circ$

To find : $\angle RSQ = ?$

Solution : All sides of a rhombus are equal.

In $\triangle PQS$, $PQ = PS$, => $\angle SPQ = \angle PQS$

=> $\angle PSQ = \frac{180^\circ - 50^\circ}{2}$

=> $\angle PSQ = 65^\circ$

Also, diagonals of a rhombus are angle bisectors i.e. $\angle PSQ = \angle RSQ$

=> $\angle RSQ = 65^\circ$

Question 163

ABC is a triangle and the sides AB, BC and CA are produced to E, F and G respectively. If $\angle CBE = \angle ACF = 130^\circ$ then the value of $\angle GAB$ is

A 100°

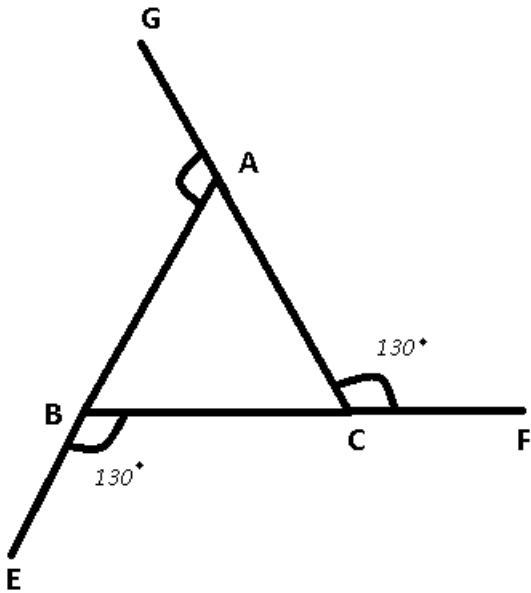
B 130°

C 80°

D 90°

Answer: A

Explanation:



Using linear pair property :

$$\Rightarrow \angle ACB + \angle ACF = 180^\circ$$

$$\Rightarrow \angle ACB = 180^\circ - 130^\circ = 50^\circ$$

Similarly, $\angle ABC = 50^\circ$

Now, in $\triangle ABC$

$$\angle BAC = 180^\circ - (50^\circ + 50^\circ) = 180^\circ - 100^\circ$$

$$\Rightarrow \angle BAC = 80^\circ$$

Again using linear pair property, we get :

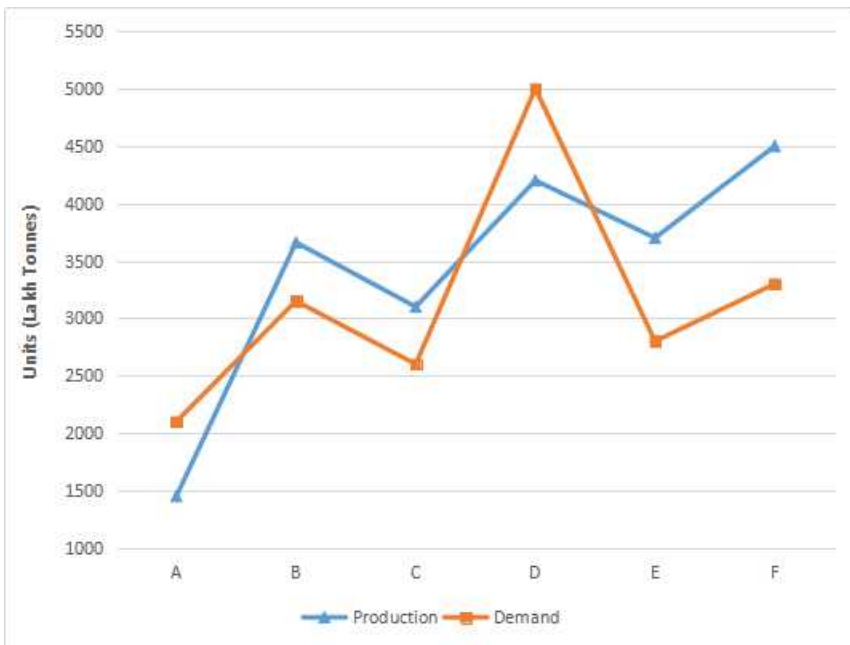
$$\angle GAB + \angle BAC = 180^\circ$$

$$\Rightarrow \angle GAB = 180^\circ - 80^\circ = 100^\circ$$

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Instructions

In the following questions, the graph shows the demand and production of different companies. Study the graph and answer the questions.



Question 164

The demand of company E is approximately what percentage of the production of company F ?

- A 60%
- B 70%
- C 80%
- D 50%

Answer: A

Explanation:

Demand of company E = 2800

Production of company F = 4500

Demand of company E as a percentage of production of company F = $(2800/4500) \times 100 = 62.22\% = 60\%$ approx.

Option A is the right answer.

Question 165

What is the difference between the average demand and the average production of the companies (in lakh tonnes)? [Approximately]

- A 200
- B 325
- C 275
- D 250

Answer: C

Explanation:

Total demand = $2100 + 3150 + 2600 + 5000 + 2800 + 3300 = 18950$

Total supply = $1450 + 3650 + 3100 + 4200 + 3700 + 4500 = 20600$

Difference in total demand and supply = 1650

Average difference = $1650/6 = 275$

Hence, option C is the right answer.

Question 166

The production of company A is approximately what percent of the demand of company C ?

- A 50%
- B 65%
- C 60%
- D 55%

Answer: D

Explanation:

Production of Company A = 1400 lakh tonnes

Demand of company C = 2600 lakh tonnes

Production of company A as a percentage of demand of company C = $1400/2600 = 55\%$ (Approx)

Option D is the right answer.

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Question 167

What is the ratio of the companies having more demand than production to those having more production than demand ?

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

Answer: B

Explanation:

Companies having more demand than production are A and D - 2 companies.

Companies having more production than demand - 4 countries

Ratio = $2:4 = 1:2$

Option B is the right answer.

Instructions

For the following questions answer them individually

Question 168

A and B entered into a partnership investing Rs 16000 and Rs. 12000 respectively. After 3 months A withdrew Rs. 5000 while B invested Rs. 5000 more. After 3 more months C joins the business with a capital of Rs 21000. The share of B exceeds that of C, out of a total profit of Rs. 26400 after one year by

- A Rs. 2400
- B Rs. 1200
- C Rs. 3600
- D Rs. 4800

Answer: C

Explanation:

Total amount invested by A over the year (in '000s) = $(16 \times 3) + (11 \times 9) = 147$

Total amount invested by B = $(12 \times 3) + (17 \times 9) = 189$

Total amount invested by C = $21 \times 6 = 126$

Ratio of the amounts invested by A : B : C = 147 : 189 : 126

$\Rightarrow A : B : C = 7 : 9 : 6$

Total profit = 26400

\Rightarrow Share of B exceeds that of C by = $\frac{9-6}{22} \times 26400$
 $= 3 \times 1200 = 3600$

Question 169

Raj and Prem walk in opposite directions at the rate of 3 km and 2 km per hour respectively. How far will they be from each other after 2 hours ?

- A 10 km
- B 8 km
- C 6 km
- D 2 km

Answer: A

Explanation:

Since Raj and Prem walks in opposite directions, their relative speed will be sum of their individual speeds i.e.

Speed, $s = 3+2 = 5$ kmph

Now, distance covered in 2 hours = time * speed

$= 5 \times 2 = 10$ km

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Question 170

If $0^\circ \leq A \leq 90^\circ$, the simplified form of the given expression $\sin A \cos A (\tan A - \cot A)$ is

- A 1
- B $1 - 2 \sin^2 A$
- C $2 \sin^2 A - 1$
- D $1 - \cos A$

Answer: C

Explanation:

Expression : $\sin A \cos A (\tan A - \cot A)$

$$= \sin A \cos A \left(\frac{\sin A}{\cos A} - \frac{\cos A}{\sin A} \right)$$

$$= \sin A \cos A \left(\frac{\sin^2 A - \cos^2 A}{\sin A \cos A} \right)$$

$$= \sin^2 A - \cos^2 A$$

$$= \sin^2 A - (1 - \sin^2 A)$$

$$= 2\sin^2 A - 1$$

Question 171

Out of four numbers the average of the first three is 16 and that of the last three is 15. If the last number is 20 then the first number is

- A 23
- B 25
- C 28
- D 21

Answer: A

Explanation:

let the four numbers be a,b,c,d

Using formula average = $\frac{\text{Sum of Elements}}{\text{Number of Elements}}$

Now, the average of first 3 numbers = 16

$$\Rightarrow \text{Sum of first 3 numbers} = a+b+c = 16 \times 3 = 48 \dots\dots\dots (1)$$

Also, average of last three numbers = 15

$$\Rightarrow \text{Sum of last three numbers} = b+c+d = 15 \times 3 = 45 \dots\dots\dots (2)$$

Subtracting equation (2) from (1)

$$\Rightarrow a - d = 3$$

Since, d = 20

$$\Rightarrow a - 20 = 3$$

$$\Rightarrow a = 23$$

Question 172

The length of canvas, 75 cm wide required to build a conical tent of height 14m and the floor area 346.5 m² is

- A 665 m
- B 860 m
- C 490 m
- D 770 m

Answer: D

Explanation:

$$\text{Base area} = 346.5 \text{ m}^2 = \pi r^2$$

$$\Rightarrow r^2 = \frac{346.5 \times 7}{22}$$

$$\Rightarrow r = \sqrt{110.25} = 10.5 \text{ m}$$

Height of tent = 14 m

$$\text{Now, slant height (l) of cone} = \sqrt{r^2 + h^2}$$

$$\Rightarrow l = \sqrt{10.5^2 + 14^2}$$

$$\Rightarrow l = \sqrt{306.25} = 17.5 \text{ m}$$

Let length of cloth be x

Surface area of cone = $\pi r l$

$$\Rightarrow 0.75 * x = \frac{22}{7} * 10.5 * 17.5$$

$$\Rightarrow x = \frac{22 * 10.5 * 17.5}{7 * 0.75}$$

$$\Rightarrow x = 770m$$

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Question 173

ABC is a cyclic triangle and the bisectors of $\angle BAC$, $\angle ABC$ and $\angle BCA$ meet the circle at P, Q, and R respectively. Then the angle $\angle RQP$ is

- A $90 - B/2$
- B $90 + B/2$
- C $90 + C/2$
- D $90 - A/2$

Answer: A

Explanation:

Angle BQP = Angle BAP

Angle BQP = Half of angle A

Similarly, Angle BQR = half of angle C

Angle BQP + Angle BQR = $0.5 * (A + C) = 0.5 * (180 - B) = 90 - B/2$.

Option A is the right answer.

Question 174

If $x = \sqrt{a^3\sqrt{b}\sqrt{a^3\sqrt{b}}}$ then the value of x is

- A $\sqrt[5]{ab^3}$
- B $\sqrt[3]{a^3b}$
- C $\sqrt[3]{a^5b}$
- D $a^2\sqrt{b}\sqrt[4]{a}$

Answer: D

Explanation:

$$x = \sqrt{a^3\sqrt{b}\sqrt{a^3\sqrt{b}}}$$

here we know that $\sqrt{b} \times \sqrt{b} = b$

and $\sqrt{a^3} = a\sqrt{a}$

$$\text{hence, } x = \sqrt{a^3\sqrt{b}\sqrt{a^3\sqrt{b}}} = a^2\sqrt{b}\sqrt[4]{a}$$

Question 175

If θ is an acute angle and $\tan^2 \theta + \frac{1}{\tan^2 \theta} = 2$ then the value of θ is:

- A 60°
- B 45°

C 15°

D 30°

Answer: B

Explanation:

$$\text{Expression : } \tan^2 \theta + \frac{1}{\tan^2 \theta} = 2$$

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

$$\Rightarrow (\tan \theta + \frac{1}{\tan \theta})^2 = 4$$

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

[It can't be -2 as θ is in 1st quadrant, and $\tan \theta$ is positive in 1st quadrant.]

$$\Rightarrow \tan^2 \theta + 1 = 2 \tan \theta$$

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

$$\Rightarrow \tan \theta = 1$$

$$\Rightarrow \theta = 45^\circ$$

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Question 176

If the cube root of 79507 is 43, then the value of $\sqrt[3]{79.507} + \sqrt[3]{0.079507} + \sqrt[3]{0.000079507}$ is

A 0.4773

B 477.3

C 47.73

D 4.773

Answer: D

Explanation:

$$\text{Since } \sqrt[3]{79507} = 43$$

$$\Rightarrow \sqrt[3]{79.507} = 4.3$$

$$\Rightarrow \sqrt[3]{0.079507} = 0.43$$

$$\Rightarrow \sqrt[3]{0.000079507} = 0.043$$

$$\Rightarrow 4.3 + 0.43 + 0.043 = 4.773$$

Question 177

If $\tan \theta + \cot \theta = 5$, then $\tan^2 \theta + \cot^2 \theta$ is

A 23

B 25

C 26

D 24

Answer: A

Explanation:

Expression : $\tan\theta + \cot\theta = 5$

Squaring both sides, we get :

$$\Rightarrow \tan^2\theta + \cot^2\theta + 2\tan\theta\cot\theta = 25$$

We know that, $\tan\theta\cot\theta = 1$

$$\Rightarrow \tan^2\theta + \cot^2\theta = 25 - 2 = 23$$

Question 178

A number exceeds its two fifth by 75. The number is

- A 125
- B 112
- C 100
- D 150

Answer: A

Explanation:

Let the number be x

Acc to ques :

$$\Rightarrow x - \frac{2}{5}x = 75$$

$$\Rightarrow \frac{3x}{5} = 75$$

$$\Rightarrow x = 125$$

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Question 179

A, B and C can do a piece of work in 24, 30 and 40 days respectively. They began the work together but C left 4 days before completion of the work. In how many days was the work done ?

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

Answer: D

Explanation:

Let the total work to be done = 120 units

$$\text{Rate at which A finishes work alone} = \frac{120}{24} = 5 \text{ units/day}$$

$$\text{Rate at which B finishes work alone} = \frac{120}{30} = 4 \text{ units/day}$$

$$\text{Rate at which C finishes work alone} = \frac{120}{40} = 3 \text{ units/day}$$

Now, C left 4 days before completion of work, which means for the last 4 days, only A & B worked together

$$\Rightarrow \text{Amount of work done in last 4 days by A \& B together} = (5+4) * 4 = 36 \text{ units}$$

Now, work left = $120-36 = 84$ units

For the remaining days, all of them worked together

$$\Rightarrow \text{Time taken to finish 84 units of work by A, B \& C together} = \frac{84}{5+4+3} = 7 \text{ days}$$

Thus, total time taken = $7+4 = 11$ days

Question 180

If $\frac{x}{y} = \frac{3}{4}$ the ratio of $(2x + 3y)$ and $(3y - 2x)$ is

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

Answer: D

Explanation:

Let $x = 3k$ and $y = 4k$

$$\Rightarrow \frac{2x+3y}{3y-2x}$$

$$= \frac{6k+12k}{12k-6k}$$

$$= \frac{18}{6}$$

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

Question 181

The percentage increase in the surface area of a cube when each side is doubled is

- A 50%
- B 200%
- C 150%
- D 300%

Answer: D

Explanation:

Let side of cube = 10 units

$$\Rightarrow \text{Surface area} = 6a^2 = 6 \times 10 \times 10 = 600 \text{ sq. units}$$

New side = $2 \times 10 = 20$ units

$$\Rightarrow \text{New surface area} = 6 \times 20 \times 20 = 2400 \text{ sq. units}$$

$$\% \text{ increase in surface area} = \frac{2400-600}{600} \times 100$$

$$= \frac{18}{6} \times 100 = 300\%$$

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Question 182

A shopkeeper gains 17% after allowing a discount of 10% on the marked price of an article. Find his profit percent if the articles are sold at marked price allowing no discount.

- A 30%
- B 23%
- C 27%
- D 37%

Answer: A

Explanation:

Let M.P. = $100x$

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

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

Let C.P. = $100y$

$$\text{Profit} = \frac{17}{100} * 100y = 17y$$

$$\Rightarrow \text{S.P.} = 100y + 17y = 117y$$

$$\Rightarrow 90x = 117y$$

$$\Rightarrow x = \frac{13y}{10}$$

If no discount is given, then

$$\Rightarrow \text{S.P.} = \text{M.P.} = 100 * \frac{13y}{10} = 130y$$

$$\therefore \text{C.P.} = 100y$$

$$\Rightarrow \text{Profit \%} = \frac{130y - 100y}{100y} * 100 = 30\%$$

Question 183

A man spends 75% of his income. His income is increased by 20% and he increased his expenditure by 10%. His savings are increased by

- A $37\frac{1}{2}\%$
- B 50%
- C 25%
- D 10%

Answer: B

Explanation:

let the income be Rs 100

As it is given that he spends 75% of his income so his spending is = Rs 75

$$\text{Saving} = 100 - 75 = \text{Rs} 25$$

Now his income is increased by 20%. So his new income is = $1.2 \times 100 = 120$ Rs

His expenditure increased by 10%. So his new expenditure is = $1.1 \times 75 = 82.5$ Rs

$$\text{New savings} = 120 - 82.5 = \text{Rs } 37.5$$

$$\text{Increment in savings} = \frac{37.5 - 25}{25} * 100 = 50\%$$

Question 184

Cost price of 100 books is equal to the selling price of 60 books. The gain percentage/loss percentage is

A $66\frac{3}{2}\%$

B 67%

C 66%

D $66\frac{2}{3}\%$

Answer: D

Explanation:

Let cost price of 1 book = Rs 1

$$\Rightarrow \text{Cost price of 100 books} = 1 \times 100 = 100$$

Now, this is equal to selling price of 60 books

$$\Rightarrow \text{Selling price of 1 book} = 100/60 = 5/3$$

Since, selling price is greater than cost price

$$\begin{aligned} \Rightarrow \text{Profit \%} &= \frac{\frac{5}{3} - 1}{1} \times 100 \\ &= \frac{100}{3} = 66\frac{2}{3}\% \end{aligned}$$

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Question 185

The ratio of each interior angle to each exterior angle of a regular polygon is 3 : 1. The number of sides of the polygon is

A 9

B 7

C 6

D 8

Answer: D

Explanation:

Let the number of sides in the polygon be n

$$\text{Each interior angle of a polygon} = \frac{(n-2) \times 180}{n}$$

$$\text{and each exterior angle of a polygon} = \frac{360}{n}$$

Acc to ques :

$$\Rightarrow \frac{\frac{(n-2) \times 180}{n}}{\frac{360}{n}} = \frac{3}{1}$$

$$\Rightarrow \frac{n-2}{2} = \frac{3}{1}$$

$$\Rightarrow n - 2 = 6$$

$$\Rightarrow n = 8$$

Question 186

A sum of money lent out at simple interest amounts to Rs. 720 after 2 years and Rs. 1020 after a further period of 5 years. Find the principal.

A Rs. 600

- B Rs. 1740
- C Rs. 6000
- D Rs. 120

Answer: A

Explanation:

Let the principal amount be P and rate of interest be R and time period be T

$$SI = \frac{PxRxT}{100}$$

When T = 2years , it is give that

$$P + \frac{PxRx2}{100} = \text{Rs } 720 \dots\dots\dots(1)$$

when T = 7 years

$$P + \frac{PxRx7}{100} = \text{Rs } 1020 \dots\dots\dots(2)$$

subtracting equation 1 from 2

$$\frac{PxRx5}{100} = 300$$

As we can see that in 5 years the SI accumulated on a given principle is Rs 300 and we know that SI is same for every year, and hence we can conclude that:

$$SI \text{ for } 2 \text{ years} = \text{Rs } 120 \dots\dots\dots(3)$$

Using equation 1 and 3

$$P = 720 - 120$$

$$P = \text{Rs } 600$$

Question 187

If $m - 5n = 2$, then the vlaue of $(m^3 - 125n^3 - 30mn)$ is

- A 6
- B 7
- C 8
- D 9

Answer: C

Explanation:

Using the formula, $(x - y)^3 = x^3 - y^3 - 3xy(x - y)$

$$\Rightarrow (m - 5n)^3 = m^3 - 125n^3 - 15mn(m - 5n)$$

$$\Rightarrow 2^3 = m^3 - 125n^3 - 15mn * 2$$

$$\Rightarrow m^3 - 125n^3 - 30mn = 8$$

General Science Notes for SSC CGL

Question 188

The average of 7, 11, 15, x, 14, 21, 25 is 15, then the value of x is

- A 13.3
- B 12

C 3

D 14.5

Answer: B

Explanation:

we know that average = $\frac{\text{sum of elements}}{\text{number of elements}}$

Number of elements = 7

Sum of elements = $7+11+15+14+21+25+x = 93+x$

$$\Rightarrow \text{Average} = \frac{93+x}{7}$$

$$\Rightarrow 15 = \frac{93+x}{7}$$

$$\Rightarrow x = 12$$

Question 189

If $x + \frac{1}{x} = 2$ then the value of $x^{12} + \frac{1}{x^{12}}$ is

A 2

B -4

C 0

D 4

Answer: A

Explanation:

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

Squaring both sides

$$\Rightarrow x^2 + \frac{1}{x^2} + 2 = 4$$

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

Cubing both sides

$$\Rightarrow x^6 + \frac{1}{x^6} + 3 \cdot x \cdot \frac{1}{x} \left(x + \frac{1}{x}\right) = 8$$

$$\Rightarrow x^6 + \frac{1}{x^6} = 8 - 6 = 2$$

Again, squaring both sides, we get :

$$\Rightarrow x^{12} + \frac{1}{x^{12}} + 2 = 4$$

$$\Rightarrow x^{12} + \frac{1}{x^{12}} = 2$$

Question 190

Find the square root of $\frac{(0.064-0.008)(0.16-0.04)}{(0.16+0.08+0.04)(0.4+0.2)^3}$

A 3

B $\frac{1}{9}$

C $\frac{1}{3}$

D $\frac{3}{2}$

Answer: C

Explanation:

$$\begin{aligned} & \text{we need to find the value of } \sqrt{\frac{(0.064 - 0.008)(0.16 - 0.04)}{(0.16 + 0.08 + 0.04)(0.4 + 0.2)^3}} \\ &= \sqrt{\frac{(0.4^3 - 0.2^3)(0.4^2 - 0.2^2)}{(0.16 + 0.08 + 0.04)(0.4 + 0.2)^3}} \\ &= \sqrt{\frac{(0.4 - 0.2)(0.4^2 + 0.4 \times 0.2 + 0.2^2)(0.4 - 0.2)(0.4 + 0.2)}{(0.16 + 0.08 + 0.04)(0.4 + 0.2)^3}} \\ &= \sqrt{\frac{(0.4 - 0.2)^2}{(0.4 + 0.2)^2}} \\ &= \sqrt{\frac{1}{9}} \\ &= \frac{1}{3} \end{aligned}$$

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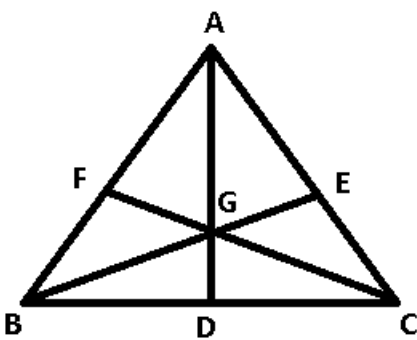
Question 191

If two medians BE and CF of a triangle ABC, intersect each other at G and if $BG = CG$, $\angle BGC = 60^\circ$ and $BC = 8$ cm then area of the triangle ABC is

- A $96\sqrt{3}cm^2$
- B $64\sqrt{3}cm^2$
- C $48\sqrt{3}cm^2$
- D $48cm^2$

Answer: C

Explanation:



In $\triangle BGC$

$\angle BGC = 60^\circ$ and $BG = GC$

$\therefore \triangle BGC$ is an isosceles triangle

$\angle GBC = \angle GCB$

As, we know sum of angles of a triangle = 180°

$\therefore \angle GBC + \angle GCB + \angle BGC = 180^\circ$

$\Rightarrow 2\angle GBC = 180^\circ - 60^\circ$

$\Rightarrow \angle GBC = 120^\circ / 2 = 60^\circ$

$$\angle GBC = \angle GCB = \angle BGC = 60^\circ$$

$\therefore \triangle GBC$ is equilateral triangle

$$\text{Area of equilateral triangle} = \frac{\sqrt{3}}{4} * side^2$$

$$\text{Area of } \triangle GBC = \frac{\sqrt{3}}{4} * 8^2$$

$$= 16\sqrt{3}$$

Median of triangle divides the triangle into two parts of equal area.

3 medians of a triangle divide the triangle into six parts of equal area.

\therefore Area of $\triangle GBC = 2 \times$ area of $\triangle GDC$

Area of $\triangle ABC = 6 \times$ area of $\triangle GDC$

$$= 3 \times 2 \times \triangle GDC$$

$$= 3 \times \text{area of } \triangle GBC$$

$$= 3 \times 16\sqrt{3}$$

$$= 48\sqrt{3}cm^2$$

Question 192

Given that $x^3 + y^3 = 72$ and $xy = 8$ with $x > y$. Then the value of $(x - y)$ is

A 4

B -4

C 2

D -2

Answer: C

Explanation:

$$\text{Given : } x^3 + y^3 = 72 \text{ and } xy = 8$$

$$\text{Solution : } (x + y)^3 = x^3 + y^3 + 3xy(x + y)$$

$$\Rightarrow (x + y)^3 = 72 + 3 \cdot 8(x + y)$$

$$\Rightarrow (x + y)^3 - 24(x + y) - 72 = 0$$

This is a cubic equation in terms of $(x + y)$ which has one real root = 6

$$\Rightarrow x + y = 6$$

$$\text{Now, } (x - y)^2 = (x + y)^2 - 4xy$$

$$\Rightarrow (x - y) = \sqrt{6^2 - 4 \cdot 8} = \sqrt{4}$$

$$\Rightarrow (x - y) = 2$$

Question 193

If two supplementary angles differ by 44° , then one of the angles is

A 68°

B 65°

C 102°

D 72°

Answer: A

Explanation:

Let the angle be θ

=> Its supplementary angle will be $(180^\circ - \theta)$

Now, acc to ques :

$$\Rightarrow 180^\circ - \theta - \theta = 44^\circ$$

$$\Rightarrow 2\theta = 180^\circ - 44^\circ = 136^\circ$$

$$\Rightarrow \theta = 68^\circ$$

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Question 194

If the sum of two numbers, one of which is $\frac{2}{5}$ times the other, is 50, then the numbers are

A $\frac{115}{7}$ and $\frac{235}{7}$

B $\frac{150}{7}$ and $\frac{200}{7}$

C $\frac{240}{7}$ and $\frac{110}{7}$

D $\frac{250}{7}$ and $\frac{100}{7}$

Answer: D

Explanation:

Let the number be x

=> Other number will be $\frac{2x}{5}$

Acc to ques :

$$\Rightarrow x + \frac{2x}{5} = 50$$

$$\Rightarrow 7x = 250$$

$$\Rightarrow x = \frac{250}{7}$$

$$\text{and second number} = \frac{2}{5} * \frac{250}{7} = \frac{100}{7}$$

Question 195

A boat can travel with a speed of 13 km/hr in still water. If the speed of stream is 4 km/hr in the same direction, time taken by boat to go 63 km in opposite direction is

A 9 hrs

B 4 hrs

C 7 hrs

D $3\frac{9}{17}$ hrs

Answer: C

Explanation:

Speed of boat = 13 km/hr and speed of stream = 4 km/hr

When going in opposite direction i.e. upstream, relative speed = $13 - 4 = 9$ km/hr

=> Time taken to go 63 km upstream = $\frac{\text{distance}}{\text{speed}}$

$$= \frac{63}{9} = 7 \text{ hours}$$

Question 196

The measures of two angles of a triangle are in the ratio 4 : 5. If the sum of these two measures is equal to the measure of the third angle, find the smallest angle.

- A 10°
- B 50°
- C 90°
- D 40°

Answer: D

Explanation:

Let the two angles of the triangle be 4θ and 5θ

$$\Rightarrow \text{Third angle} = 180^\circ - (4\theta + 5\theta) = 180^\circ - 9\theta$$

Acc to ques :

$$\Rightarrow 4\theta + 5\theta = 180^\circ - 9\theta$$

$$\Rightarrow 18\theta = 180^\circ$$

$$\Rightarrow \theta = 10^\circ$$

$$\Rightarrow \text{Smallest angle} = 4\theta$$

$$= 4 \times 10 = 40^\circ$$

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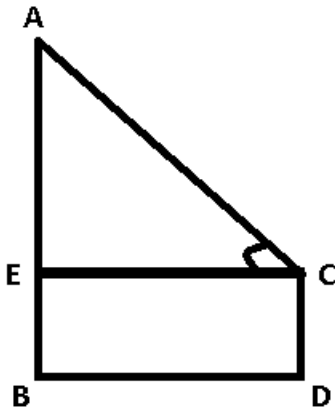
Question 197

A person of height 6ft. wants to pluck a fruit which is on a $26/3$ ft. high tree. If the person is standing $8/\sqrt{3}$ ft. away from the base of the tree, then at what angle should he throw a stone so that it hits the fruit ?

- A 75°
- B 30°
- C 45°
- D 60°

Answer: B

Explanation:



Height of person = $CD = 6$ ft

Height of tree = $AB = \frac{26}{3}$ ft

Distance between them = $BD = \frac{8}{\sqrt{3}}$ ft

To find : $\angle ACE = \theta = ?$

Solution : $AE = AB - BE = \frac{26}{3} - 6$

$\Rightarrow AE = \frac{8}{3}$ ft

and $BD = CE = \frac{8}{\sqrt{3}}$ ft

Now, in $\triangle AEC$

$\Rightarrow \tan \theta = \frac{AE}{CE}$

$\Rightarrow \tan \theta = \frac{\frac{8}{3}}{\frac{8}{\sqrt{3}}}$

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

$\Rightarrow \theta = 30^\circ$

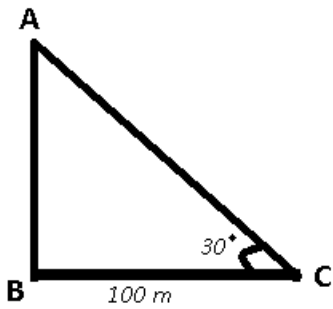
Question 198

The angle of elevation of a tower from a distance of 100 metre from its foot is 30° . Then the height of the tower is

- A $50\sqrt{3}$ metre
- B $100\sqrt{3}$ metre
- C $\frac{50}{\sqrt{3}}$ metre
- D $\frac{100}{\sqrt{3}}$ metre

Answer: D

Explanation:



Height of tower = AB

In $\triangle ABC$

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

$$\Rightarrow \tan 30^\circ = \frac{AB}{100}$$

$$\Rightarrow \frac{1}{\sqrt{3}} = \frac{AB}{100}$$

$$\Rightarrow AB = \frac{100}{\sqrt{3}}$$

Question 199

A can do a work in 10 days and B in 20 days. If they together work on it for 5 days, then the fraction of the work that is left is

A $\frac{3}{4}$

B $\frac{4}{3}$

C $\frac{3}{20}$

D $\frac{1}{4}$

Answer: D

Explanation:

Let the total amount of work = 20 units

$$\Rightarrow \text{Rate at which A alone finishes work} = \frac{20}{10} = 2 \text{ units/day}$$

$$\Rightarrow \text{Rate at which B alone finishes work} = \frac{20}{20} = 1 \text{ unit/day}$$

$$\Rightarrow \text{Rate at which both A \& B work together} = 2+1 = 3 \text{ units/day}$$

$$\text{Work done by both in 5 days} = 5 \times 3 = 15 \text{ units}$$

$$\Rightarrow \text{Amount of work left} = 20 - 15 = 5 \text{ units}$$

$$\Rightarrow \text{Fraction of work left} = \frac{5}{20} = \frac{1}{4}$$

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Question 200

Two circles touch each other externally. The sum of their areas is 130π sq cm and the distance between their centres is 14 cm. The radius of the smaller circle is

A 2 cm

B 4 cm

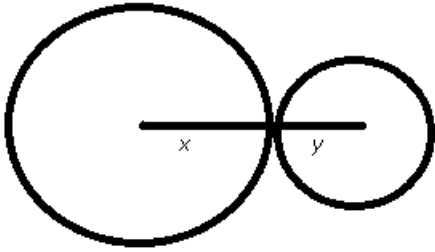
C 5 cm

D 3 cm

Answer: D



Explanation:



Let the radius of bigger circle = x and smaller circle = y

Now, distance between their centres = 14

$$\Rightarrow x + y = 14$$

Sum of their areas = $130\pi \text{ cm}^2$

$$\Rightarrow \pi x^2 + \pi y^2 = 130\pi$$

$$\Rightarrow x^2 + y^2 = 130$$

Now, solving above equations, we get $x = 11$

and $y = 3$

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