



SSC CGL 2013 Tier 1 19 May Evening II

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General Awareness

Instructions

For the following questions answer them individually

Question 1

Investment multiplier shows the effect of investment on

- A Employment
- B Savings
- C Income
- D Consumption

Answer: C

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Question 2

Identify the one which is not related to the Agricultural Price Policy.

- A Buffer stock
- B Imports
- C Support price
- D Licensing

Answer: D

Question 3

If a good has negative income elasticity and positive price elasticity of demand, it is a

- A giffen good
- B normal good
- C superior good
- D an inferior good

Answer: A

Question 4

The opportunity cost of a factor of production is

- A what it is earning in its present use.
- B what it can earn in the long period.
- C what has to be paid to retain it in its present use.
- D what it can earn in some other use.

Answer: D

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Question 5

Which of the following does not form a part of the foreign exchange reserves of India ?

- A Gold
- B SDRs
- C Foreign currency assets
- D Foreign currency and securities held by the banks and corporate bodies

Answer: D

Question 6

Which writ is issued by the court in case of an illegal detention of a person?

- A Habeas Corpus
- B Mandamus
- C Certiorari
- D Quo Warranto

Answer: A

Question 7

Which among the following is not true about Pressure Groups?

- A Pressure Groups aim at capturing government.
- B Pressure Groups aim at influencing the policies of the government.
- C Pressure Groups articulates the interest of its group
- D Pressure Group is characterised by homogeneity of interests.

Answer: A

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Question 8

Under which Article of the Indian Constitution, the decision of the Central Administrative Tribunal can be challenged in the Supreme Court ?

- A 323A
- B 329
- C 343 C
- D 343 K

Answer: A

Question 9

Which country is the example for Plural Executive system ?

- A U.S.A.
- B U.K.
- C India
- D Switzerland

Answer: D

Question 10

The Concept of "Directive Principles of State Policy" incorporated in the Constitution of India was borrowed from the Constitution of

- A Australia
- B U.S.A.
- C Canada,
- D Ireland

Answer: D

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Question 11

The Peshwaship was abolished by the British at the time of Peshwa

- A Raghunath Rao
- B Narayan Rao
- C Madhav Rao II
- D Baji Rao II

Answer: D

Question 12

King Kharvela was the greatest ruler of the Chedi Dynasty of

- A Cholamandalam
- B Kalinga
- C Kannauj
- D Purushpur

Answer: B

Question 13

Who coined the name 'Pakistan'?

- A Mohammad All Jinnah

- B Fazlul Haq
- C Liaquat Ali Khan
- D Choudhry Rehmat All

Answer: D

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Question 14

By which Charter Act, the East India Company's monopoly of trade with China came to an end?

- A Charter Act of 1793
- B Charter Act of 1813
- C Charter Act of 1833
- D Charter Act of 1853

Answer: C

Question 15

The idea of federation was first proposed in

- A Indian Councils Act of 1892
- B Morley-Minto Reforms
- C Montague-Chelmsford Reforms
- D Nehru Report of 1928

Answer: D

Question 16

In 'annular' pattern, rivers flow

- A from West to East
- B from North to South
- C like a ring
- D in transverse direction

Answer: C

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Question 17

Ports of the Baltic Sea remain open for trade even during winter because

- A It lies in the tropical belt.
- B North Atlantic Drift, a warm ocean current flows in the region.

- C Local winds keep it warm.
- D Western disturbances cause abrupt rise in the temperature.

Answer: B

Question 18

The climatic zones are classified on the basis of

- A distance from the equator
- B elevation
- C rainfall
- D distance from the sea

Answer: C

Question 19

Major South-West Asian oil fields are located in

- A Shore regions of Persian Gulf
- B Euphratis-Tigris Basin
- C Arabian Desert
- D Rub-al-Khali Desert

Answer: A

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Question 20

Which one of the following is not a Galilean Satellite of Jupiter?

- A Europa
- B Ganymede
- C Callisto
- D Deimos

Answer: D

Question 21

Membrane lipids of chill-sensitive plants contain

- A low proportion of saturated fatty acids.
- B low proportion of unsaturated fatty acids.
- C equal proportion of saturated and unsaturated fatty acids.
- D high proportion of unsaturated fatty acids.

Answer: D

Question 22

Respiration is regarded as a

- A Synthetic Process
- B Catabolic Process
- C Anabolic Process
- D Reduction Process

Answer: B

General Science Notes for SSC CGL

Question 23

The structure which helps in the nutrition of the Embryo is

- A Yolk sac
- B Amniotic membrane
- C Crypts
- D Placenta

Answer: A

Question 24

Which part of the human brain is the regulating centre for swallowing and vomiting?

- A Cerebellum
- B Cerebrum
- C Medulla Oblongata
- D Pons

Answer: C

Question 25

Which animal is devoid of lateral line sense organ?

- A Labeo
- B Catla
- C Sea horse
- D Magur

Answer: C

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Question 26

Conglobate gland is a leaf like structure found in

- A Female Cockroach
- B Male Cockroach
- C Male Ascaris
- D Female Ascaris

Answer: B

Question 27

In the resistance colour code, the fourth band signifies

- A tolerance level
- B power of ten
- C the total value of resistance
- D the material of the resistor

Answer: A

Question 28

In Astrophysics, what name is given to a hypothetical hole in outer space from which stars and energy emerge?

- A Black hole
- B Ozone hole
- C Asteroid belt
- D White hole

Answer: D

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Question 29

Neutrons are slowed down in a nuclear reactor by

- A Fissionable material
- B Moderator
- C Control rods
- D Cooling system

Answer: B

Question 30

The science of Dactylography is commonly known as

- A Carbon dating
- B Water printing
- C Finger printing
- D Electro cardiogram

Answer: C

Question 31

Sun Lab's Java Car uses technology to keep your car networked with the world outside.

- A embedded
- B spam
- C smart Screen
- D access Point

Answer: A

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Question 32

Give an example for the LIFO (last In First Out) str:

- A Stack
- B Queue
- C De-queue
- D Array

Answer: A

Question 33

An element of atomic no. 29 belongs to

- A s-block
- B d-block
- C p-block
- D f-block

Answer: B

Question 34

Light scattering takes place in

- A Colloidal solutions
- B Acidic solutions

- C Electrolyte solutions
- D Basic solutions

Answer: A

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Question 35

Which among the following is used as a catalyst in the production of high octane fuels?

- A HNO
- B H₂SO₄
- C HCl
- D HF

Answer: B

Question 36

The curcumin is isolated from which substance ?

- A Garlic
- B Turmeric
- C Sunflower
- D Rose flower

Answer: B

Question 37

The increased incidence of floods in recent times in North India is due to

- A increase in the annual rainfall.
- B increase in the silting of dams.
- C increased deforestation in the catchment area.
- D None of these

Answer: C

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Question 38

The term reactor referred to in waste water treatment is

- A Vessel
- B Settling tank
- C Clarifier

D Aeration tank

Answer: D

Question 39

The effect or response produced by two or more chemicals are less than the sum of the effects or response that the chemical would produce individually is known as

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

Answer: A

Question 40

Threshold limit value of copper in the atmospheric air is

- A 0.001 mg/m
- B 0.01 mg/m
- C 1.0 mg/m
- D 5.0 mg/m

Answer: C

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Question 41

Which team won the Champions League-Twenty (CLT-20) Trophy in 2012?

- A Sydney Sixers
- B Highveld Lions
- C Nashua Titans
- D Delhi Dare Devils

Answer: A

Question 42

Who was the Captain of the Indian Hockey Team, which won the first Olympic Gold Medal in Amsterdam in 1928 ?

- A Dhyanchand
- B Jaipal Singh
- C Laebokhan
- D Kishan lal

Answer: B

Question 43

Who was the first Indian woman winner of Miss Universe' award?

- A Recta Fara
- B Aishwarva Rai
- C Lara Dana
- D Sushmita Sen

Answer: D

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Question 44

Who was the first recipient of the Jnanpith Award ?

- A Dr. K.V. Puttappa
- B G. Sankara Kurup
- C Thakazhi Sivasankara Pillai
- D M.T. VasudeVan Nair

Answer: B

Question 45

Among the following works of Salman Rushdie, which one was his first creation?

- A Shame
- B Midnight's Children
- C The Satanic Verses
- D The Moor's Last Laugh

Answer: B

Question 46

Which is the only country whose postage stamps do not bear its name?

- A U.S.A.
- B U.K.
- C Japan
- D Pakistan

Answer: B

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Question 47

Which one of the following organisations is not having its headquarters in Geneva?

- A World Trade Organisation
- B World Health Organisation
- C International Labour Organisation
- D International Civil Aviation Organisation

Answer: D

Question 48

Who is the Chairperson of the National Commission for Protection of Child Rights?

- A Leela Samson
- B Shantha Sinha
- C Mamta Sharma
- D Usha Mehra

Answer: B

Question 49

In which calendar month of every year, each one of the first four dates (i.e. from 1st to 4th) is observed as a World/International Day for a specific purpose ?

- A June
- B July
- C September
- D October

Answer: D

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Question 50

Which one of the following is wrongly paired (Folk & Dance State) ?

- A Kerala, Karagam
- B Gujarat, Garba
- C Uttar Pradesh, Nautanki
- D West Bengal, Jatna

Answer: A

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English

Instructions

In the following questions, some parts of the sentences have errors and some are correct. Find out which part of a sentence has an error.

The number of that part is the answer. If a sentence is free from error, then your answer is (d), i.e., No error.

Question 51

The new dish (a)/ that I ordered (b)/ is tasting good.(c)/ No error. (d)

- A The new dish
- B that I ordered
- C is tasting good.
- D No error.

Answer: C

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Question 52

Increasing racism and hate crimes (a)/ casted a shadow (b)/ over elections. (c)/ No error. (d)

- A Increasing racism and hate crimes
- B casted a shadow
- C over elections.
- D No error.

Answer: B

Question 53

I have got your letter yesterday (a)/ and felt happy to learn (b)/ of your recovery. (c)/ No error. (d)

- A I have got your letter yesterday
- B and felt happy to learn
- C of your recovery.
- D No error.

Answer: A

Question 54

Sam is working (a)/ in a bank in Chennai (b) / for the past five years. (c)/ No error. (d)

- A Sam is working
- B in a bank in Chennai
- C for the past five years.
- D No error.

Answer: A

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Question 55

People living in low-lying areas (a)/ find it difficult (b)/ to cope up with the floods.(c)/ No error. (d)

- A People living in low-lying areas
- B find it difficult
- C to cope up with the floods.
- D No error.

Answer: C

Instructions

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

Question 56

His words were hardly with that screaming and shouting in the market.

- A legible
- B eligible
- C intelligible
- D None of these

Answer: D

Question 57

He was..... angry to speak to me.

- A so
- B too
- C that
- D such

Answer: B

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Question 58

I wish I..... a pen.

- A were
- B am
- C was
- D be

Answer: A

Question 59

Look after your health _____ you should repent later on.

- A as
- B because
- C till
- D lest

Answer: D

Question 60

Every year millions of tourists _____ the Anna Centenary Library in Chennai.

- A visiting
- B visit
- C are visiting
- D visited

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.

Question 61

repeated

- A disputed
- B elaborated
- C explained
- D reiterated

Answer: D

Question 62

revere

- A condemn
- B reverse
- C humiliate
- D respect

Answer: D

Question 63

erudite

- A scholarly
- B unlettered
- C stingy
- D sloppy

Answer: A

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Instructions

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

Question 64

grating

- A musical
- B unmusical
- C hoarse
- D strident

Answer: A

Question 65

capricious

- A fanciful
- B reasonable
- C intolerant
- D indifferent

Answer: B

Question 66

lassitude

- A pleasure
- B lustrous
- C lethargy
- D enthusiasm

Answer: D

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Instructions

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

Question 67

The issues were settled in court, but after a few days it was **back to square one**.

- A to return to the starting point
- B to run to the first square
- C to start and return
- D to come to a stop

Answer: A

Question 68

Politicians enjoy **blowing their own trumpets**.

- A to boast about their achievements
- B to use one's own trumpet
- C to blow their trumpet loudly
- D to praise others trumpeting

Answer: A

Question 69

Students must learn to keep their belongings **in apple pie order**.

- A orderly preparation of apple pie
- B in perfect order
- C ordering for apple pie
- D arranging apples neatly

Answer: B

General Science Notes for SSC CGL

Question 70

Scientific knowledge is no longer a **closed book** in this 21st century.

- A an unopened book
- B a covered book
- C a mystery
- D a mysterious book

Answer: C

Question 71

It takes a month of Sundays to chop all that wood.

- A a short period
- B no time
- C a long time
- D a special Sunday

Answer: C

Instructions

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

Question 72

He reached the village just when the sun was setting.

- A When just the sun was setting, he reached the village.
- B When the sun was setting he just reached the village.
- C He just reached the village when the sun was setting.
- D No improvement.

Answer: D

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Question 73

He evaded to pay income tax.

- A from paying
- B against paying
- C paying
- D No improvement

Answer: C

Question 74

The gypsies had left the village a few days ago.

- A have left
- B would have left
- C left
- D No improvement

Answer: C

Question 75

When we bought the house, we could tell that it was a large, new, compact, tinted house.

- A it was a new, large and compact house
- B It was as new, large and as tinted
- C it was a new, large, compact and bright house
- D No improvement

Answer: C

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Question 76

Migrant workers can be seen working on many of the building places in New Delhi.

- A sites
- B premises
- C locations
- D No improvement

Answer: A

Question 77

“Indian English” has come of age and has been accepted as a legitimate category the world over.

- A literate
- B local
- C illegal
- D No improvement

Answer: D

Question 78

If they were knowing about the crabs, they would not have decided to picnic there.

- A had known
- B knew
- C did know
- D no improvement

Answer: A

Question 79

A shrewd man could only see through the trick.

- A Only a shrewd man could see the trick through.
- B Only a shrewd man could see through the trick.
- C Through the trick a shrewd man could only see.
- D No improvement.

Answer: A

Question 80

As soon as I reached my house, I opened my cupboard.

- A I reached my house as soon as I opened my cupboard.
- B As soon as I opened my cupboard I reached my house.
- C No sooner had I reached my house that I opened my cupboard.
- D No improvement.

Answer: D

Question 81

Your success for hard work depends on your ability.

- A Your success depends on your ability for hard working.
- B Your success depends on your ability of hard work.
- C Your success depends on your ability for hard work.
- D No improvement.

Answer: B

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Instructions

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

Question 82

Science of human mind and behaviour

- A Physiology
- B Psychology
- C Sociology
- D Philology

Answer: B

Question 83

A set of three related works by the same author

- A Topology
- B Trilogy
- C Trichology
- D Ecology

Answer: B

Question 84

The study or practice of dancing or composing ballets

- A Calligraphy
- B Cartography
- C Choreography
- D Epigraphy

Answer: C

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Question 85

Having juicy or fleshy and thick tissues

- A Succulent
- B Translucent
- C Dissolvent
- D Dissident

Answer: A

Question 86

One who accepts pleasure and pain equally

- A Thespian
- B Sadist
- C Stoic
- D Humanitarian

Answer: C

Question 87

One who thinks or speaks too much of himself

- A Imposter
- B Enthusiast
- C Egotist
- D Optimist

Answer: C

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Question 88

An exact- copy of handwriting or a picture produced by a machine

- A Original
- B Facsimile
- C Copy
- D None of these

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 89

- A campagnes
- B campaignes
- C campaines
- D campaigns

Answer: D

Question 90

- A rhythim
- B rhithm
- C rhythm
- D rhithym

Answer: C

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Instructions

In the following questions, read the passage carefully and choose the best answer to each question out of the four alternatives.

The Great Pyramid at Giza is one of the world's most amazing landmarks. Rising high above the Sahara Desert in the Giza region of

northern Egypt, the Great Pyramid stands some 450 feet into the burning desert sky and occupies of an area of 13 acres. The rough climate of the Sahara has actually caused the pyramid to shrink 30 feet from its original height. The pyramid was such an amazing feat of engineering, that it remained the tallest structure in the world for over 3,800 years. The entire pyramid was originally faced with polished limestone to make it shine brilliantly in the sun. Most Egyptologists, scientists who study ancient Egypt, agree that the Great Pyramid was built around 2560 BC, a little more than 4,500 years ago. It took tens of thousands of workers twenty years to build. The pyramid contains over two million stone blocks. Although most of the blocks weigh two or three tons, some weigh up to 80 tons. The Great Pyramid of Giza was ordered built by the Pharaoh Khufu as a magnificent tomb. His vizier (advisor) Hemon is credited with being the pyramid's architect. Khufu's pyramid is actually part of a complex of pyramids that includes the Pyramid of Khafre, the smaller Pyramid of Menkaure, a variety of smaller pyramids and structures, and the Great Sphinx. The Great Pyramid of Giza is the last remaining of the Seven Wonders of the World.

Question 91

Which of these does not house the Great Pyramid ?

- A Giza
- B Southern Egypt
- C Northern Egypt
- D Sahara Desert

Answer: B

Question 92

How many stone blocks constitute the pyramid ?

- A 4,500
- B more than two million
- C 3,800
- D 2,560

Answer: B

Question 93

Most of the blocks in the pyramid weigh about tons.

- A five
- B eighty
- C two or three
- D 4,500

Answer: C

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Question 94

Which of the following definitions best describes the meaning of "complex" in the passage?

- A Pyramid
- B Materials

C Group

D Army

Answer: C

Question 95

Which of the following is false?

A The Great Pyramid is the last of the Seven Wonders of the World.

B Khufu was Hemon's vizier and architect.

C The Pyramid took tens of thousands of workers about twenty years to complete it.

D Hemon was Khufu's vizier and architect.

Answer: B

Instructions

In the following questions Read the passage carefully and choose the best answer to each question out of the four alternatives.

One of the American Navy's greatest losses during World War II was inflicted not by the Japanese, but by the weather. On the evening of 17 December 1944, destroyers, cruisers and aircraft carriers of the Third Fleet Task Force 38 were replenishing stocks of food, fuel and ammunition during a sea rendezvous with support ships when a savage tornado struck the Philippine Sea. One of the commanders said later: 'My ship was riding as though caught in some giant washing machine. We were rolling between heaving cliffs of water. caught in so strong a vice of wind and sea that our 50,000 horse-power engines were helpless.' It was nine hours before he regained control of his ship, after the fleet had bobbed like helpless shuttlecocks, unable to prevent collisions in the sledge hammer waves.

Question 96

The American Navy suffered great losses because of

A the aircraft raid

B the Japanese fleet

C the weather

D the landmines

Answer: C

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Question 97

Find a word from the passage which means "refilling".

A heaving

B inflicting

C retaliating

D replenishing

Answer: D

Question 98

A sea rendezvous means

- A a dive into the sea
- B a swim in the sea
- C a meeting at sea
- D sailing in the sea

Answer: D

Question 99

Sledge hammer waves means

- A waves moving like a sledge.
- B waves like a big, heavy hammer.
- C waves hammering a sledge.
- D waves in which a hammer and a sledge are found.

Answer: B

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Question 100

The ships caught in the tornado

- A are compared to shuttlecocks
- B had a cargo of shuttlecocks
- C scattered shuttlecocks in the sea
- D traded in shuttlecocks

Answer: A

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Quant

Instructions

For the following questions answer them individually

Question 101

The fourth root of 24010000 is

- A 7
- B 49
- C 490

D 70

Answer: D

Explanation:

$$24010000 = (7 \times 7 \times 7 \times 7) \times (10 \times 10 \times 10 \times 10)$$

$$\Rightarrow \sqrt[4]{24010000} = 70$$

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Question 102

The greatest 4 digit number which is a perfect square, is

A 9999

B 9909

C 9801

D 9081

Answer: C

Explanation:

Since the number has 4 digits, its square root will always have 2 digits.

\Rightarrow Greatest 2 digit no. = 99

Greatest 4 digit no. which is perfect square = $99^2 = 9801$

Question 103

A piece of work can be done by Ram and Shyam in 12 days, by Shyam and Hari in 15 days and by Hari and Ram in 20 days. Ram alone will complete the work in

A 30 days

B 32 days

C 36 days

D 42 days

Answer: A

Explanation:

Let the total work to be done = 60 units

Let rates at which Ram, Shyam and Hari alone do the job be x , y and z units/day respectively.

Rate at which Ram & Shyam completes the work = $\frac{60}{12} = 5$

$$\Rightarrow x + y = 5$$

Similarly, $y + z = 4$

and $z + x = 3$

Adding all the above equations, we get :

$$\Rightarrow 2(x + y + z) = 12$$

$$\Rightarrow x + y + z = 6$$

Substituting value of $(y + z)$ in above equation, we get $x = 6 - 4 = 2$

=> No. of days required by Ram to finish the work = $\frac{60}{2} = 30$ days

Question 104

3 men or 5 women can do a work in 12 days. How long will 6 men and 5 women take to finish the work?

- A 4 days
- B 5 days
- C 6 days
- D 7 days

Answer: A

Explanation:

Let the total work be 1 unit

3 men can do a work in 12 days

=> Rate at which 3 men do the work = $\frac{1}{12}$

=> Rate at which 6 men do the work = $2 * \frac{1}{12} = \frac{1}{6}$

Similarly, rate at which 5 women do the work = $\frac{1}{12}$

Rate at which 6 men and 5 women finish the work = $\frac{1}{6} + \frac{1}{12}$

= $\frac{1}{4}$

=> No. of days required by 6 men and 5 women to finish the work = $\frac{1}{\frac{1}{4}}$

= 4 days

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Question 105

A and B can do a job in 12 days, B and C in 15 days and C and A in 20 days. How long would A take to do that work ?

- A 20 days
- B 60 days
- C 30 days
- D 40 days

Answer: C

Explanation:

Let the total work to be done = 60 units

Let rates at which A, B and C alone do the job be x , y and z units/day respectively.

Rate at which A & B completes the work = $\frac{60}{12} = 5$

$$\Rightarrow x + y = 5$$

Similarly, $y + z = 4$

and $z + x = 3$

Adding all the above equations, we get :

$$\Rightarrow 2(x + y + z) = 12$$

$$\Rightarrow x + y + z = 6$$

Substituting value of $(y + z)$ in above equation, we get $x = 6 - 4 = 2$

$$\Rightarrow \text{No. of days required by A to finish the work} = \frac{60}{2} = 30 \text{ days}$$

Question 106

The difference of perimeter and diameter of a circle is X unit. The diameter of the circle is

- A $\frac{X}{\pi-1}$ units
- B $\frac{X}{\pi+1}$ units
- C $\frac{X}{\pi}$ units
- D $(\frac{X}{\pi} - 1)$ units

Answer: A

Explanation:

$$\text{Difference of perimeter and diameter} = 2\pi r - 2r = X$$

$$\Rightarrow 2r = \frac{X}{\pi-1}$$

$$\Rightarrow r = \frac{X}{2(\pi-1)}$$

$$\Rightarrow \text{Diameter} = 2*r = \frac{X}{\pi-1} \text{ units}$$

Question 107

The perimeter of the base of a right circular cylinder is 'a' unit. If the volume of the cylinder is V cubic unit, then the height of the cylinder is

- A $\frac{4a^2V}{\pi}$
- B $\frac{4\pi a^2}{V}$
- C $\frac{\pi a^2V}{4}$
- D $\frac{4\pi V}{a^2}$

Answer: D

Explanation:

$$\text{Perimeter of base} = 2\pi r = a$$

$$\Rightarrow r = \frac{a}{2\pi}$$

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

$$\Rightarrow \pi \left(\frac{a}{2\pi}\right)^2 h = V$$

$$\Rightarrow a^2 h = 4\pi V$$

$$\Rightarrow h = \frac{4\pi V}{a^2}$$

SSC CGL Tier-2 Previous Papers PDF

Question 108

A sphere of diameter 6 cm is dropped in a right circular cylindrical vessel partly filled with water. The diameter of the cylindrical vessel is 12 cm. If the sphere is just completely submerged in water, then the rise of water level in the cylindrical vessel is

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

Answer: B

Explanation:

Since, the sphere is completely submerged in water, then volume of sphere = volume of cylinder.

Radius of sphere = 3cm and radius of cylinder = 6cm

Rise in the water level will be equal to the height of cylinder.

$$\Rightarrow \frac{4}{3} \pi R^3 = \pi r^2 h$$

$$\Rightarrow \frac{4}{3} * 3^3 = 6^2 h$$

$$\Rightarrow h = \frac{4*9}{36}$$

$$\Rightarrow h = 1 \text{ cm}$$

Question 109

A shopkeeper marks his goods 20% above his cost price and gives 15% discount on the marked price. His gain percent is

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

Answer: C

Explanation:

Let cost price = $100x$

$$\Rightarrow \text{Marked price} = 100x + \frac{20}{100} * 100x = 120x$$

$$\text{After giving 15% discount, selling price} = 120x - \frac{15}{100} * 120x$$

$$= 120x - 18x = 102x$$

$$\text{Profit \%} = \frac{102x - 100x}{100x} * 100 = 2\%$$

Question 110

A shopkeeper earns a profit of 12% on selling a book at 10% discount on printed price. The ratio of the cost price to printed price of the book is

- A 45 : 56
- B 50 : 61
- C 90 : 97
- D 99 : 125

Answer: A

Explanation:

Let the printed price be $100x$ and the cost price be $100y$

After discount of 10%, selling price of the book = $100x - \frac{10}{100} * 100x$
= $90x$

After earning a profit of 12%, selling price = $100y + \frac{12}{100} * 100y$
= $112y$

Now, equating above equations, we get :

$$\Rightarrow 90x = 112y$$

$$\Rightarrow \frac{y}{x} = \frac{45}{56}$$

To find : $\frac{100y}{100x} = \frac{y}{x}$

$$= 45 : 56$$

SSC CGL Important Questions PDF

Question 111

The list price of an article is 160 and a customer buys it for 122.40 after two successive discounts. If the first discount is 10%, then second discount is

- A 12%
- B 10%
- C 14%
- D 15%

Answer: D

Explanation:

After offering the discount of 10% on list price Rs. 160, price of the article will be

$$= 160 - \frac{10}{100} * 160$$

$$= 144$$

Let the second discount be $x\%$

$$\Rightarrow 144 - \frac{x}{100} * 144 = 122.40$$

$$\Rightarrow 1.44x = 21.60$$

$$\Rightarrow x = 15\%$$

Question 112

In a school, 10% of number of girls is equal to $\frac{1}{20}$ th of number of boys. Ratio between the number of boys to number of girls is

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

Answer: B

Explanation:

Let the number of girls be $100x$ and number of boys be $100y$

Acc to ques :

$$\Rightarrow \frac{10}{100} * 100x = \frac{1}{20} * 100y$$

$$\Rightarrow 10x = 5y$$

$$\Rightarrow \frac{y}{x} = \frac{2}{1}$$

$$\text{To find : } \frac{100y}{100x} = \frac{y}{x}$$

$$= 2 : 1$$

Question 113

The ratio of $25^{2.5} : 5^3$ is same as

A 5 : 3

B 5 : 6

C 1 : 25

D 25 : 1

Answer: D

Explanation:

The ratio of $25^{2.5} : 5^3$

$$= \frac{5^5}{5^3} = 5^2$$

$$\Rightarrow \text{Ratio} = 25 : 1$$

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Question 114

If a, b, c, d, e are five consecutive odd numbers, their average is

A $5(a+4)$

B $abcde/5$

C $5(a + b + c + d + e)$

D $a + 4$

Answer: D

Explanation:

Let the five consecutive odd numbers are :

$$a = a$$

$$b = a + 2$$

$$c = a + 4$$

$$d = a + 6$$

$$e = a + 8$$

$$\text{Average} = \frac{a+a+2+a+4+a+6+a+8}{5}$$

$$= \frac{5a+20}{5} = a + 4$$

Question 115

The average of 20 numbers is 15 and the average of first five is 12. The average of the rest is

- A 16
- B 15
- C 14
- D 13

Answer: A

Explanation:

Average of 20 numbers = 15

=> Sum of 20 numbers = $20 \times 15 = 300$

Average of first five = 12

=> Sum of first five = $5 \times 12 = 60$

Numbers remaining = $20 - 5 = 15$

Sum of remaining numbers = $300 - 60 = 240$

\therefore Required average = $240/15 = 16$

Question 116

A tradesman sold an article at a loss of 20%. If the selling price had been increased by 100, there would have been a gain of 5%. The cost price of the article (in Z.) was

- A 100
- B 200
- C 400
- D 500

Answer: C

Explanation:

Let the cost price be $100x$

Loss % = 20%

=> S.P. = $100x - \frac{20}{100} \times 100x = 80x$

Acc to ques :

=> $80x + 100 = 100x + \frac{5}{100} \times 100x$

=> $80x + 100 = 105x$

=> $x = \frac{100}{25} = 4$

\therefore Cost price = $100 \times 4 = \text{Rs. } 400$

General Science Notes for SSC CGL

Question 117

The price of an article is first decreased by 20% and then increased by 30%. If the resulting price is 416, the original price of the article is

- A 350
- B 405

C 400

D 450

Answer: C

Explanation:

Let the original price of the article be Rs. $100x$

When price is decreased by 20%, new price = $100x - \frac{20}{100} * 100x = 80x$

Again, when price is increased by 30%, new price = $80x + \frac{30}{100} * 80x = 104x$

Acc to ques :

$$\Rightarrow 104x = 416$$

$$\Rightarrow x = 4$$

\therefore Original price = $100 * 4 = \text{Rs. } 400$

Question 118

A man performs $\frac{2}{15}$ of the total journey by train, $\frac{9}{20}$ by bus and the remaining 10 km on foot. His total journey in km is

A 15.6

B 24

C 16.4

D 12.8

Answer: B

Explanation:

Let his total journey be $60x$ km

Distance travelled by train = $\frac{2}{15} * 60x = 8x$

Distance travelled by bus = $\frac{9}{20} * 60x = 27x$

Remaining distance = $60x - 8x - 27x = 25x$

Acc to ques :

$$\Rightarrow 25x = 10$$

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

$$\Rightarrow \text{Total journey} = \frac{2}{5} * 60 = 24 \text{ km}$$

Question 119

By walking at $\frac{3}{4}$ of his usual speed, a man reaches his office 20 minutes later than usual. His usual time is

A 30 min.

B 75 min.

C 90 min.

D 60 min.

Answer: D

Explanation:

Let the original speed of man be $4x$ and he reaches his office in t min.

New speed = $3x$ and new time taken = $(t + 20)$ min

$\therefore \text{speed} \propto \frac{1}{\text{time}}$

$$\Rightarrow \frac{4x}{3x} = \frac{t+20}{t}$$

$$\Rightarrow 4t = 3t + 60$$

$$\Rightarrow t = 60 \text{ min}$$

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Question 120

If the compound interest on a certain sum for two years at 12% per annum is 2,544, the simple interest on it at the same rate for 2 years will be

- A 2,400
- B 2,500
- C 2,480
- D 2,440

Answer: A

Explanation:

Let the principal amount be P

Compound interest after 2 years at 12% pa = 2544

$$\Rightarrow P\left[\left(1 + \frac{12}{100}\right)^2 - 1\right] = 2544$$

$$\Rightarrow P\left(\frac{784}{625} - 1\right) = 2544$$

$$\Rightarrow \frac{159}{625}P = 2544$$

$$\Rightarrow P = 16 \times 625 = \text{Rs. } 10,000$$

$$\text{Now, S.I.} = \frac{10,000 \times 12 \times 2}{100}$$

$$= \text{Rs. } 2,400$$

Question 121

The total cost of 8 buckets and 5 mugs is 92 and the total cost of 5 buckets and 8 mugs is 77. Find the cost of 2 mugs and 3 buckets.

- A 35
- B 70
- C 30
- D 38

Answer: A

Explanation:

Let cost of 1 bucket be x and one mug be y

$$\Rightarrow 8x + 5y = 92$$

$$\text{and } 5x + 8y = 77$$

Solving above equations, we get $x = 9$ and $y = 4$

$$\Rightarrow \text{Cost of 2 mugs and 3 buckets} = 3x + 2y$$

$$= 3 \times 9 + 2 \times 4 = 35$$

Question 122

If $\frac{a}{1-a} + \frac{b}{1-b} + \frac{c}{1-c} = 1$ the the value of $\frac{1}{1-a} + \frac{1}{1-b} + \frac{1}{1-c}$

- A 1
- B 3
- C 4
- D 0

Answer: C

Explanation:

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

Let's put each term equal to each other

$$\Rightarrow 3 \frac{a}{1-a} = 1$$

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

$$\Rightarrow a = \frac{1}{4} = b = c$$

To find : $\frac{1}{1-a} + \frac{1}{1-b} + \frac{1}{1-c}$

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

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

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Question 123

If $(x - 3)^2 + (y - 5)^2 + (z - 4)^2 = 0$ then the value of $\frac{x^2}{9} + \frac{y^2}{25} + \frac{z^2}{16}$

- A 12
- B 9
- C 3
- D 1

Answer: C

Explanation:

Expression : $(x - 3)^2 + (y - 5)^2 + (z - 4)^2 = 0$

Since, all the terms are positive, the only way the sum can be '0' is, if each term is equal to 0.

$$\Rightarrow (x - 3)^2 = 0$$

$$\Rightarrow x = 3$$

Similarly, $y = 5$ & $z = 4$

To find : $\frac{x^2}{9} + \frac{y^2}{25} + \frac{z^2}{16}$

$$= \frac{3^2}{9} + \frac{5^2}{25} + \frac{4^2}{16}$$

$$= 1 + 1 + 1 = 3$$

Question 124

If $4x/3 + 2P = 12$, for what value of P, $x = 6$?

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

Answer: C

Explanation:

Expression : $\frac{4x}{3} + 2P = 12$

Putting $x = 6$, we get :

$$\Rightarrow 8 + 2P = 12$$

$$\Rightarrow P = \frac{4}{2} = 2$$

Question 125

The value of $\frac{4+3\sqrt{3}}{7+4\sqrt{3}}$

- A $5\sqrt{3} - 8$
- B $5\sqrt{3} + 8$
- C $8\sqrt{3} + 5$
- D $8\sqrt{3} - 5$

Answer: A

Explanation:

$$\frac{4+3\sqrt{3}}{7+4\sqrt{3}}$$

$$= \frac{4+3\sqrt{3}}{7+4\sqrt{3}} \times \frac{7-4\sqrt{3}}{7-4\sqrt{3}}$$

$$= \frac{28-16\sqrt{3}+21\sqrt{3}-36}{49-48}$$

$$= \frac{5\sqrt{3}-8}{1}$$

$$= 5\sqrt{3} - 8$$

so the answer is option A.

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Question 126

if $x(3 - \frac{2}{x}) = \frac{3}{x}$, then the value of $x^2 + \frac{1}{x^2}$

- A $\frac{1}{29}$
- B $\frac{4}{29}$
- C $\frac{1}{39}$

D $3\frac{4}{9}$

Answer: B

Explanation:

$$\text{Expression: } x(3 - \frac{2}{x}) = \frac{3}{x}$$

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

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

Squaring both sides

$$\Rightarrow x^2 + \frac{1}{x^2} - 2 = \frac{4}{9}$$

$$\Rightarrow x^2 + \frac{1}{x^2} = \frac{22}{9} = 2\frac{4}{9}$$

Question 127

What number must be added to the expression $16a^2 - 12a$ to make it a perfect square ?

A $\frac{9}{4}$

B $\frac{11}{2}$

C $\frac{13}{2}$

D 16

Answer: A

Explanation:

Using the rule, $a^2 - 2ab + b^2 = (a - b)^2$

$$\Rightarrow 16a^2 - 12a = (4a)^2 - 2 * 4a * \frac{3}{2}$$

$$= (4a)^2 - 2 * 4a * \frac{3}{2} + (\frac{3}{2})^2 - \frac{9}{4}$$

$$= (4a - \frac{3}{2})^2$$

$\Rightarrow \frac{9}{4}$ should be added to make the above expression a perfect square.

Question 128

The straight line $2x + 3y = 12$ passes through :

A 1st, 2nd and 3rd quadrant

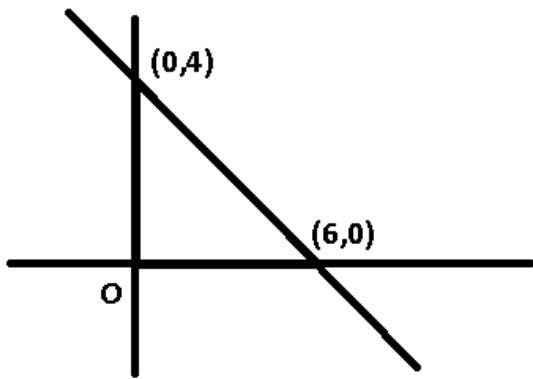
B 1st, 2nd and 4th quadrant

C 2nd, 3rd and 4th quadrant

D 1st, 3rd and 4th quadrant

Answer: B

Explanation:



The line above represents the equation $2x + 3y = 12$

Clearly, it passes through 1st, 2nd and 4th quad.

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Question 129

The sum of three altitudes of a triangle is

- A equal to the sum of three sides
- B less than the sum of sides
- C greater than the sum of sides
- D twice the sum of sides

Answer: B

Explanation:

The sides are AB, BC and CA. The altitudes are AD, BE and CF.

Being the sides of triangles as altitudes then sides of triangles have to be the hypotenuse.

It is clear that hypotenuse is always greater than any one of the other sides

So $AB > AD$ and $BC > BE$ and $CA > CF$

Now adding $AB + BC + CA > AD + BE + CF$

Question 130

In ΔABC , $\angle A + \angle B = 65^\circ$, $\angle B + \angle C = 140^\circ$, then find $\angle B$.

- A 40°
- B 25°
- C 35°
- D 20°

Answer: B

Explanation:

Given : $\angle A + \angle B = 65^\circ$

We know that in a triangle

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

$$\Rightarrow \angle C = 180^\circ - 65^\circ = 115^\circ$$

It is also given that : $\angle B + \angle C = 140^\circ$

$$\Rightarrow \angle B = 140 - 115 = 25^\circ$$

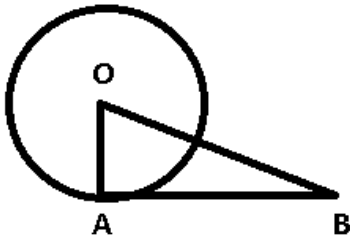
Question 131

The length of the tangent drawn to a circle of radius 4 cm from a point 5 cm away from the centre of the circle is

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

Answer: A

Explanation:



$$OA = 4, OB = 5 \text{ cm}$$

In right $\triangle OAB$

$$\Rightarrow AB = \sqrt{(OB)^2 - (OA)^2}$$

$$\Rightarrow AB = \sqrt{25 - 16} = \sqrt{9}$$

$$\Rightarrow AB = 3 \text{ cm}$$

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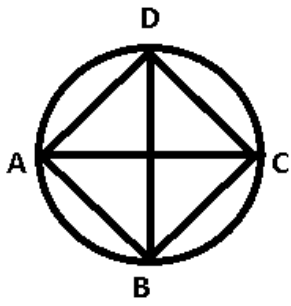
Question 132

A cyclic quadrilateral ABCD is such that $AB = BC$, $AD = DC$, $AC \perp BD$, $\angle CAD = \theta$. Then the angle $\angle ABC =$

- A θ
- B $\theta/2$
- C 2θ
- D 3θ

Answer: C

Explanation:



$AB = BC$ and $AD = DC$, $\angle CAD = \theta$

In isosceles $\triangle ADC$

$$\Rightarrow \angle CAD + \angle ACD + \angle CDA = 180$$

$$\Rightarrow 2\theta + \angle CDA = 180$$

$$\Rightarrow \angle CDA = 180 - 2\theta$$

Sum of opposite angles in a cyclic quadrilateral = 180

$$\Rightarrow \angle CDA + \angle ABC = 180$$

$$\Rightarrow \angle ABC + 180 - 2\theta = 180$$

$$\Rightarrow \angle ABC = 2\theta$$

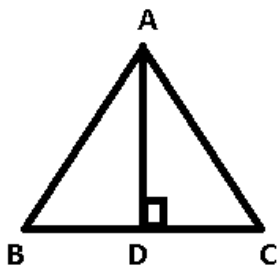
Question 133

The height of an equilateral triangle is 15 cm. The area of the triangle is

- A $50\sqrt{3}$ sq. cm.
- B $70\sqrt{3}$ sq. cm.
- C $75\sqrt{3}$ sq. cm.
- D $150\sqrt{3}$ sq. cm.

Answer: C

Explanation:



$AD = 15$ cm and ABC is equilateral triangle

In $\triangle ADC$

$$\Rightarrow \tan \angle ACD = \frac{AD}{DC}$$

$$\Rightarrow \tan 60 = \frac{15}{DC}$$

$$\Rightarrow DC = \frac{15}{\sqrt{3}} = 5\sqrt{3}$$

$$\Rightarrow BC = 2 \cdot DC = 10\sqrt{3}$$

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

$$= \frac{\sqrt{3}}{4} * (10\sqrt{3})^2$$

$$= 75\sqrt{3}cm^2$$

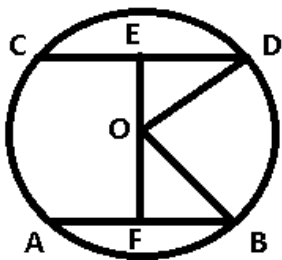
Question 134

Two parallel chords of a circle, of diameter 20 cm lying on the opposite sides of the centre are of lengths 12 cm and 16 cm. The distance between the chords is

- A 16 cm
- B 24 cm
- C 14 cm
- D 20 cm

Answer: C

Explanation:



$$OB = OD = 10, AB = 12, CD = 16$$

$$\text{Now, } BF = 12/2 = 6 \text{ and } DE = 16/2 = 8$$

In $\triangle OBF$

$$\Rightarrow OF = \sqrt{(OB)^2 - (BF)^2}$$

$$\Rightarrow OF = \sqrt{100 - 36} = \sqrt{64} = 8$$

Similarly, $EO = 6$

$$\Rightarrow EF = EO + OF = 8 + 6 = 14 \text{ cm}$$

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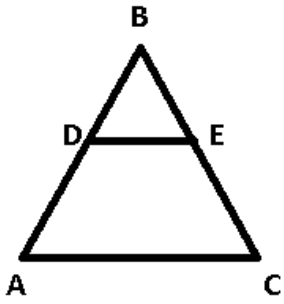
Question 135

In $\triangle ABC$, $DE \parallel AC$. D and E are two points on AB and CB respectively. If $AB = 10$ cm and $AD = 4$ cm, then $BE : CE$ is

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

Answer: D

Explanation:



$AB = 10$ and $AD = 4$

$\Rightarrow BD = 10 - 4 = 6$

Since, $DE \parallel AC$

$$\Rightarrow \frac{AB}{BD} = \frac{BC}{BE}$$

$$\Rightarrow \frac{10}{6} = \frac{BE + EC}{BE}$$

$$\Rightarrow 5BE = 3BE + 3EC$$

$$\Rightarrow \frac{BE}{CE} = 3 : 2$$

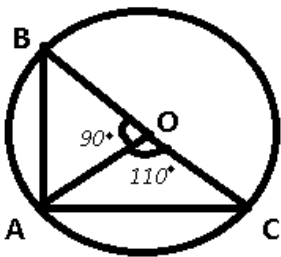
Question 136

A, B and C are the three points on a circle such that the angles subtended by the chords AB and AC at the centre O are 90° and 110° respectively. $\angle BAC$ is equal to

- A 70°
- B 80°
- C 90°
- D 100°

Answer: B

Explanation:



Centre of the circle is O

$$\Rightarrow \angle AOB + \angle AOC + \angle BOC = 360^\circ$$

$$\Rightarrow 90 + 110 + \angle BOC = 360^\circ$$

$$\Rightarrow \angle BOC = 160^\circ$$

Now, the angle subtended by an arc at the centre is double the angle subtended by it at any point on the remaining part of the circle.

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

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

Question 137

If the angles of elevation of a balloon from two consecutive kilometre-stones along a road are 30° and 60° respectively, then the height of the balloon above the ground will be

A $\frac{\sqrt{3}}{2}$ km

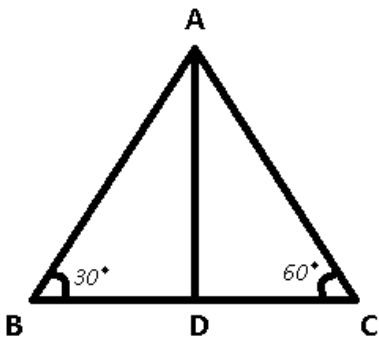
B $\frac{1}{2}$ km

C $\frac{2}{\sqrt{3}}$ km

D $3\sqrt{3}$

Answer: A

Explanation:



It is given that $BC = 2$ km

Let $BD = x \Rightarrow CD = (2 - x)$ km

From $\triangle ABD$

$$\Rightarrow \tan 30 = \frac{AD}{BD}$$

$$\Rightarrow \frac{1}{\sqrt{3}} = \frac{AD}{x}$$

$$\Rightarrow AD = \frac{x}{\sqrt{3}}$$

From $\triangle ADC$

$$\Rightarrow \tan 60 = \frac{AD}{CD}$$

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

$$\Rightarrow 3(2-x) = x$$

$$\Rightarrow x = \frac{3}{2}$$

Now, height of balloon above ground = $AD = \frac{3}{2\sqrt{3}}$

$$= \frac{\sqrt{3}}{2} \text{ km}$$

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Question 138

Evaluate : $3 \cos 80^\circ \operatorname{cosec} 10^\circ + 2 \cos 59^\circ \operatorname{cosec} 31^\circ$

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

Answer: D

Explanation:

Expression : $3 \cos 80^\circ \operatorname{cosec} 10^\circ + 2 \cos 59^\circ \operatorname{cosec} 31^\circ$

$$= 3 \frac{\cos 80^\circ}{\sin 10^\circ} + 2 \frac{\cos 59^\circ}{\sin 31^\circ}$$

$$= 3 \frac{\cos 80^\circ}{\sin(90^\circ - 80^\circ)} + 2 \frac{\cos 59^\circ}{\sin(90^\circ - 59^\circ)}$$

$$= 3 \frac{\cos 80^\circ}{\cos 80^\circ} + 2 \frac{\cos 59^\circ}{\cos 59^\circ}$$

$$= 3 + 2 = 5$$

Question 139

$(\frac{3\pi}{5})$ radians is equal to

- A 100°
- B 120°
- C 108°
- D 180°

Answer: C

Explanation:

We know that $\pi^c = 180^\circ$

$$\Rightarrow (\frac{3\pi}{5})^c = \frac{180}{\pi} \times \frac{3\pi}{5}$$

$$= 108^\circ$$

Question 140

If $\tan \theta + \cot \theta = 2$, then the value of $\tan^2 \theta + \cot^2 \theta$ is

- A 2
- B 1
- C $\sqrt{2}$
- D 0

Answer: A

Explanation:

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

Using, $(x + y)^2 = x^2 + y^2 + 2xy$

$$\Rightarrow (\tan \theta + \cot \theta)^2 = \tan^2 \theta + \cot^2 \theta + 2 \tan \theta \cot \theta$$

Also, $\therefore \tan \theta = \frac{1}{\cot \theta}$

$$\Rightarrow (\tan \theta + \cot \theta)^2 = \tan^2 \theta + \cot^2 \theta + 2$$

$$\Rightarrow (2)^2 = \tan^2\theta + \cot^2\theta + 2$$

$$\Rightarrow \tan^2\theta + \cot^2\theta = 4 - 2 = 2$$

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

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Question 141

The eliminant of θ from $x \cos\theta - y \sin\theta = 2$ and $x \sin\theta + y \cos\theta = 4$ will give

- A $x^2 + y^2 = 20$
- B $3x^2 + y^2 = 20$
- C $x^2 - y^2 = 20$
- D $3x^2 - y^2 = 10$

Answer: A

Explanation:

Expression 1 : $x \cos\theta - y \sin\theta = 2$

Squaring both sides :

$$\Rightarrow x^2 \cos^2\theta + y^2 \sin^2\theta - 2xy \sin\theta \cos\theta = 4$$

Similarly, squaring expression 2, we get :

$$\Rightarrow x^2 \sin^2\theta + y^2 \cos^2\theta + 2xy \sin\theta \cos\theta = 16$$

Adding above equations,

$$\Rightarrow x^2(\cos^2\theta + \sin^2\theta) + y^2(\cos^2\theta + \sin^2\theta) = 20$$

$$\Rightarrow x^2 + y^2 = 20$$

Question 142

$\sin\theta - 3 \sin\theta + 2 = 0$ will be true if

- A $0 \leq \theta < 90$
- B $0 < \theta < 90$
- C $\theta = 0^\circ$
- D $\theta = 90^\circ$

Answer: D

Explanation:

Expression : $\sin\theta - 3\sin\theta + 2 = 0$

$$\Rightarrow 2\sin\theta = 2$$

$$\Rightarrow \sin\theta = 1 = \sin 90^\circ$$

$$\Rightarrow \theta = 90^\circ$$

Question 143

The value of $\frac{\cos^2 A (\sin A + \cos A)}{\operatorname{cosec}^2 A (\sin A - \cos A)} + \frac{\sin^2 A (\sin A - \cos A)}{\sec^2 A (\sin A + \cos A)}$ ($\sec^2 A - \operatorname{cosec}^2 A$)

- A 1

B 3

C 2

D 4

Answer: C

Explanation:

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

$$= [\cos^2 A \sin^2 A \frac{(\sin A + \cos A)}{(\sin A - \cos A)} + \cos^2 A \sin^2 A \frac{(\sin A - \cos A)}{(\sin A + \cos A)}] (\sec^2 A - \operatorname{cosec}^2 A)$$

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

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

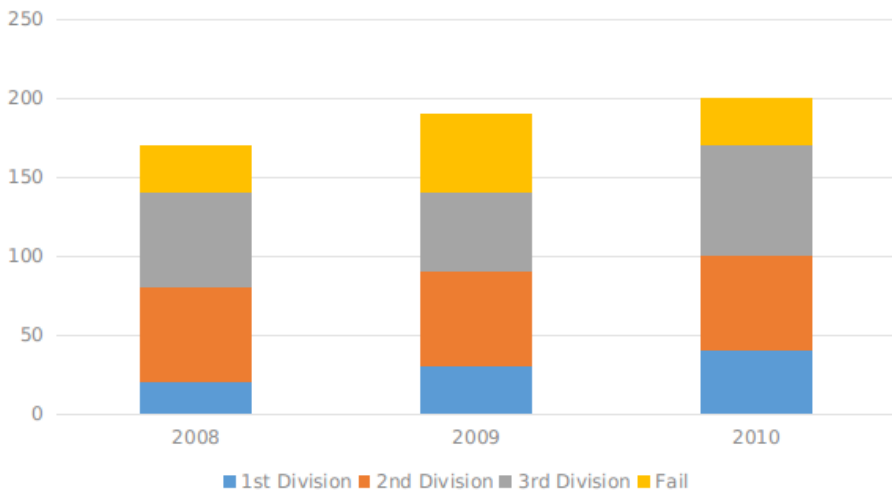
$$= 1 + 2\sin A \cos A + 1 - 2\sin A \cos A$$

$$= 2$$

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Instructions

The sub divided bar diagram given below depicts H.S. Students of a school for three years. Study the diagram and answer the questions.



Question 144

The percentage passed in 1st division in 2008 was

A 27%

B 32%

C $15\frac{3}{8}$ %

D $11\frac{13}{17}$ %

Answer: D

Explanation:

no. of students passed in 1st division in 2008 = 20

total no. of students in 2008 = 170

$$\text{The percentage passed in 1st division in 2008} = \frac{20}{170} \times 100 \% = 11\frac{13}{17} \%$$

so the answer is option D.

Question 145

The pass percentage in 2008 was

- A 67%
- B 73%
- C $79\frac{2}{3}\%$
- D $82\frac{6}{17}\%$

Answer: D

Explanation:

students passed in 2008 = 140 out of 170

$$\text{pass percentage} = \frac{140}{170} \times 100 = 82\frac{6}{17}\%$$

so the answer is option D.

Question 146

In which year the school had the best result for H.S. in respect of percentage of pass candidates ?

- A 2008
- B 2009
- C 2010
- D The percentage of pass candidates are same for the three years.

Answer: C

Explanation:

$$\text{pass percentage} = \frac{\text{no. of passed candidates}}{\text{total no. of candidates}} \times 100$$

$$\text{pass percentage in 2008} = \frac{140}{170} \times 100 = 82.35\%$$

$$\text{pass percentage in 2009} = \frac{140}{190} \times 100 = 73.68\%$$

$$\text{pass percentage in 2010} = \frac{170}{200} \times 100 = 85\%$$

so the answer is option A.

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Question 147

The number of students passed in third division in the year 2008 was

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

Answer: B

Explanation:

from the graph,

The number of students passed in third division in the year 2008 was $140 - 80 = 60$

so the answer is option B.

Question 148

The percentage of the students passed in 2nd division in the year 2010 was

- A 30%
- B 40%
- C 50%
- D 60%

Answer: A

Explanation:

students passed in 2nd division in the year 2010 = 60

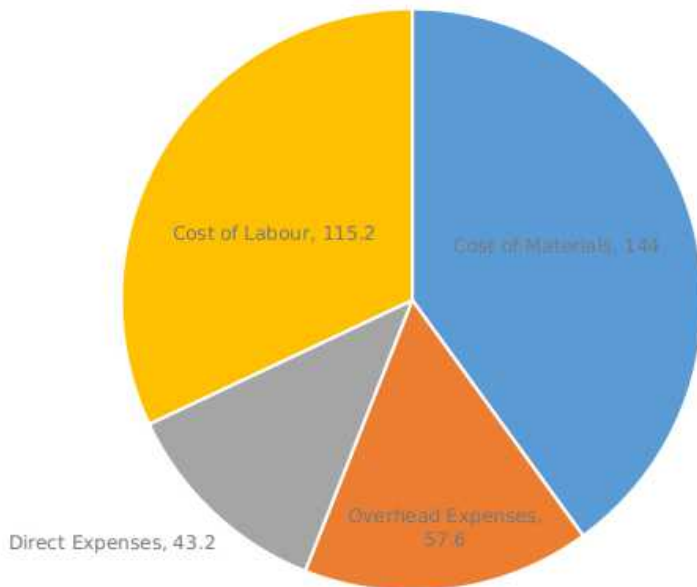
students appeared for exam in the year 2010 = 200

$$\text{percentage} = \frac{60}{200} \times 100 = 30\%$$

so the answer is option A.

Instructions

Following figure is Pie-chart representing item wise cost of a manufacturing certain product. Study the chart and answer the questions.



Question 149

Total manufacturing cost is ' 96,000. Then, cost of labour is

- A 30,720
- B 38,400
- C 11,520
- D 15,000

Answer: A

Explanation:

Total manufacturing cost is 96,000.

Then, cost of labour = $\frac{115.2}{360} \times 96000 = 30720$

so the answer is option A.

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Question 150

- A 26,000
- B 10,000
- C 26,500
- D 26,880

Answer: D

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Reasoning

Instructions

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

Question 151

9 : 7 :: 80 : ?

- A 49
- B 50
- C 78
- D 82

Answer: C

Explanation:

Expression = 9 : 7 :: 80 : ?

The pattern followed is = $n : n - 2$

Eg = $9 - 2 = 7$

Similarly, $80 - 2 = 78$

=> Ans - (C)

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Question 152

Defer : Put off :: Deduce : ?

- A Infer
- B Protect
- C Delate

D Oppose

Answer: A

Explanation:

The meaning of defer is to put off, similarly synonym of deduce is infer.

=> Ans - (A)

Question 153

Fish : Gills :: Human : ?

A Heart

B Lungs

C Nose

D Mouth

Answer: C

Explanation:

Gills are the respiratory organs of fish, similarly humans breathe through nose.

=> Ans - (C)

Question 154

CARD : IGXJ :: POST : ?

A UTXY

B VUYZ

C UIYZ

D VUXY

Answer: B

Explanation:

Expression = CARD : IGXJ :: POST : ?

The pattern followed is :

C	A	R	D
(+6)	(+6)	(+6)	(+6)
I	G	X	J

Similarly, for POST :

P	O	S	T
(+6)	(+6)	(+6)	(+6)
V	U	Y	Z

=> Ans - (B)

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Instructions

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

Question 155

a_ _b abba_abb a_ba

- A abab
- B abba
- C aabb
- D aaab

Answer: A

Explanation:

On putting the option A letters sequentially in the gaps the given series becomes aabbabbaaabbabba
Thus follows the pattern
aa,bb,ab,ba,aa,bb,ab,ba
So option A is correct

Question 156

AZB_, AZ _Y, A _BY, _ ZBY

- A YBZA
- B BYAZ
- C BZYA
- D AZBY

Answer: A

Explanation:

On putting values of option A in blank spaces the series becomes
AZBYAZBYAZBYAZBY
Thus the Series follows the logic
AZBY,AZBY,AZBY,AZBY
So option A is correct

Instructions

For the following questions answer them individually

Question 157

Find out the wrong number in the sequence

102, 101, 98, 93, 86, 74, 66, 53

- A 101
- B 66
- C 74
- D 93

Answer: C

Explanation:

The Series follows pattern
102
102 - 1 = 101
101 - 3 = 98
98 - 5 = 93
93 - 7 = 86

Since 1,3,5 and 7 are subtracted in order to get the next term

So $7 + 2 = 9$

should be subtracted in order to get next term

So

next term should be

$$86 - 9 = 77$$

$$77 - 11 = 66$$

$$66 - 13 = 53$$

So option C is correct

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Instructions

In each of the following questions, select the one which is different, from other three responses.

Question 158

A Soldier - Barrack

B Principal - School

C Artist - Troupe

D Singer - Chorus

Answer: B

Explanation:

A group of soldiers is called barrack, group of artists is called troupe and a group of singers is called chorus, but a principal is the head of a school, hence it is the odd one out.

=> Ans - (B)

Question 159

A Detach

B Affix

C Append

D Fasten

Answer: A

Explanation:

Affix, append and fasten have similar meanings that is to attach, hence detach is the odd one out.

=> Ans - (A)

Question 160

A Man = 13114

B Ram = 18113

C Jug = 10217

D Hub = 82110

Answer: D

Explanation:

The numerical positions of the alphabets are concatenated.

(A) : MAN = 13,1,14

(B) : RAM = 18,1,13

(C) : JUG = 10,21,7

(D) : HUB = 8,21,2

=> Ans - (D)

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Question 161

A 74, 7

B 97, 9

C 41, 4

D 63, 6

Answer: B

Explanation:

The difference of each pair of numbers is :

(A) : $74 - 7 = 67$

(B) : $97 - 9 = 88$ (even)

(C) : $41 - 4 = 37$

(D) : $63 - 6 = 57$

=> Ans - (B)

Instructions

For the following questions answer them individually

Question 162

The set which resembles the given set 1, 5, 12 is

A 7, 11, 35

B 4, 8, 24

C 10, 14, 44

D 9, 13, 42

Answer: B

Explanation:

Expression = $(1 + 5) \times 2 = 6 \times 2 = 12$

(A) : $(7 + 11) \times 2 = 18 \times 2 = 36 \neq 35$

(B) : $(4 + 8) \times 2 = 12 \times 2 = 24$

(C) : $(10 + 14) \times 2 = 24 \times 2 = 48 \neq 44$

(D) : $(9 + 13) \times 2 = 22 \times 2 = 44 \neq 42$

=> Ans - (B)

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 163

ELFA, GLHA, ILJA, ? , MLNA

A OLPA

B KLMA

C LLMA

D KLLA

Answer: D

Explanation:

Expression : ELFA, GLHA, ILJA, ? , MLNA

The second and forth letters in the series, L and A, are static.

The first and third letters consist of an alphabetical order beginning with the letter E.

Eg : If we look at first and third alphabets of each word, we get : E,F,G,H,I,J ,K,L,M,N

Thus, missing word : **KLLA**

=> Ans - (D)

General Science Notes for SSC CGL

Question 164

4, 18, 48, ? 180

A 80

B 100

C 105

D 125

Answer: B

Explanation:

The Series is

$$1 \times 2^2 = 4$$

$$2 \times 3^2 = 18$$

$$3 \times 4^2 = 48$$

$$4 \times 5^2 = 100$$

$$5 \times 6^2 = 180$$

Question 165

FGH, JKL, NOP, RS?

- A T
- B M
- C Q
- D U

Answer: A

Explanation:

The Series is

FGH

$F + 4, G + 4, H + 4 = JKL$

$J + 4, K + 4, L + 4 = NOP$

$N + 4, O + 4, P + 4 = RST$

So ? = T

Question 166

b - 0, y - 3, c - 8, x - 15, d - 24, ?

- A e - 48
- B w - 35
- C w - 39
- D v - 30

Answer: C

Explanation:

The given question has two series

Series 1

b - 0

$b + 1, 0 + 8 \times 1 = c - 8$

$c + 1, 8 + 8 \times 2 = d - 24$

Series 2

y - 3

$y - 1, 3 + 12 \times 1 = x - 15$

$x - 1, 15 + 12 \times 2 = w - 39$

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Instructions

For the following questions answer them individually

Question 167

The average age of father and his son is 22 years. The ratio of their ages is 10 : 1 respectively. What is the age of the son ?

- A 24
- B 4
- C 40
- D 14

Answer: B

Explanation:

Let son's age = x years

=> Father's age = $10x$ years

$$\text{Average age} = \frac{x+10x}{2} = 22$$

$$\Rightarrow 11x = 22 \times 2 = 44$$

$$\Rightarrow x = \frac{44}{11} = 4 \text{ years}$$

=> Ans - (B)

Question 168

Veni is an year older than Smith. Smith is two years older than Salim. Raju is an year older than Salim. Who is the youngest of all ?

- A Raju
- B Salim
- C Veni
- D Smith

Answer: B

Explanation:

Let Smith's age = 10 years

=> Veni's age = $10 + 1 = 11$ years

Salim's age = $10 - 2 = 8$ years

=> Raju's age = $8 + 1 = 9$ years

Clearly, from above equations, Salim is the youngest of all.

=> Ans - (B)

Question 169

Rachel starts walking towards North. After walking 15 metres, she turns towards South and walks 20 metres. She then turns towards East and walks 10 metres. Then, again, she walks 5 metres towards North. How far is she from her starting point and in which direction ?

- A 10 metres, West
- B 5 metres, East

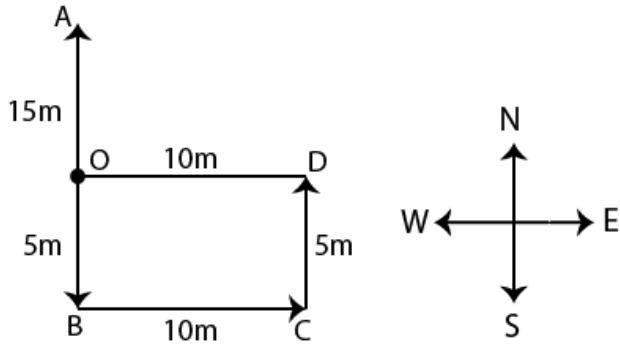
C 5 metres, North

D 10 metres, East

Answer: D

Explanation:

Let the starting point be A and final point be D. Her route can be traced as follows



hence we can see that she is 10m East of her initial position.

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Instructions

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

Question 170

HETEROGENOUS

A REGENT

B GENERATE

C STORE

D ROUTE

Answer: B

Explanation:

because of the absence of the letter A in HETEROGENOUS, all except option B can be formed. hence the correct answer is option B.

Question 171

UNEQUIVOCAL

A EQUAL

B VOCAL

C QUAIN

D NAIVE

Answer: C

Explanation:

From the letters of the word UNEQUIVOCAL all except QUAIN can be formed because of the absence of the letter T in UNEQUIVOCAL . hence the correct answer is option C.

Instructions

For the following questions answer them individually

Question 172

A group of alphabets are given with each being assigned a number. These have to be unscrambled into a meaningful word and correct order of letter may be indicated from the given responses.

YMLOSBCI

- A 47685321
- B 51264387
- C 21645387
- D 56241387

Answer: B

Explanation:

option C will mean: SYMBOLIC. this is only option that makes sense. therefore the correct answer is option C.

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Question 173

In a certain code, LONDON is coded as 24 - 30 - 28 - 8 - 30-28. How will FRANCE be coded?

- A 10- 24 - 6- 28 - 6- 12
- B 12 - 26 - 6 - 28 - 8 - 10
- C 12 - 36 - 2 - 28 - 6 - 10
- D 12 - 26 - 2 - 28 - 8 - 10

Answer: C

Explanation:

the pattern for the above statement is that each letter is represented by a number which is twice its position in the Alphabet. Which will mean FRANCE will be represented as 12 - 36 - 2 - 28 - 6 - 10. which is option C . therefore, the correct answer is option C.

Question 174

If each of the letters in the English alphabet is assigned odd numerical value beginning A = 1, B = 3 and so on, what will the total value of the letters for the word 'HOTEL' ?

- A 95
- B 115
- C 125
- D 105

Answer: B

Explanation:

on assigning odd numbers to letters the letters of the word HOTEL we get:

H:15

O:29

T:39

E:9

L:23 the sum of which will be $15+29+39+9+23=115$. the correct answer is option B.

Question 175

In a certain code, MAARK is written as KRAAM. How PASSI can be written in that code?

- A ISSAP
- B ISSPA
- C SSIPA
- D ASSIP

Answer: A

Explanation:

if MAARK is written as KRAAM, then the most clear pattern that can be identified is that the alphabets are written in the reverse order, which, on applying the same logic would mean that PASSI will be coded as ISSAP. hence option A is the correct answer.

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Question 176

If $29 \times 48 = 576$, $35 \times 16 = 90$, $22 \times 46 = 96$, then $42 \times 17 = ?$

- A 56
- B 286
- C 48
- D 64

Answer: A

Explanation:

All the digits of the numbers are multiplied.

Eg = $29 \times 48 = 2 \times 9 \times 4 \times 8 = 576$

and $35 \times 16 = 3 \times 5 \times 1 \times 6 = 90$

and $22 \times 46 = 2 \times 2 \times 4 \times 6 = 96$

Similarly, $42 \times 17 = 4 \times 2 \times 1 \times 7 = 56$

=> Ans - (A)

Question 177

If 'P' denotes 'multiplied by', 'T' denotes 'subtracted from', 'M' denotes 'added to and 'B' denotes 'divided by' then : what should be the correct response of 12 P 6 M 15 T 16 B 4 ?

- A 70
- B 75
- C 83
- D 110

Answer: C

Explanation:

with the above symbols and meanings, the statement: 12 P 6 M 15 T 16 B 4 , will translate to : $12 * 6 + 15 - 16 / 4$ which on solving with BODMAS rule we get 83.

the correct answer is option C

Question 178

If + = Greater than, Φ = Not greater than, - = Not less than, \times = Equal to, I = Less than and L = Not equal to, then of $A \mid B \times C$ which of the following is true ?

- A $B + C \mid A$
- B $C - B + A$
- C $B \mid A \mid C$
- D $A \Phi B \mid C$

Answer: B

Explanation:

with the above symbols and their translations the statement $A \mid B \times C$ will translate to $A < B = C$.

option C will be $C \geq B > A$.

Hence the correct answer is option C.

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Question 179

Identify one response which would be a correct inference from the given premises stated according to the following symbols :

'A' stands for not greater than

'B' stands for equal to

'C' stands for less than

'D' stands for not less than

'E' stands for not equal to

'F' stands for greater than

Premises (2 M B N) and (2N A 3K)

- A 2M D 3K
- B 2M B 3K
- C 2M C 3K
- D 2K B 3N

Answer: C

Explanation:

the statements will translate to :

2 M B N: $2M = K$

2N A 3K: $2N \leq 3K$

which will mean that $4M \leq 3K$

therefore option C will be always true.

Instructions

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

Question 180

54, 30 112, 42 ? , 28
24 70 38

- A 176
- B 166

C 116

D 66

Answer: D

Explanation:

$$54 - 30 = 24$$

$$112 - 42 = 70$$

Similarly

$$? - 28 = 38$$

$$? = 66$$

Question 181

216 209 202

522 515 508

633 626 ?

A 620

B 608

C 602

D 619

Answer: D

Explanation:

In each row the next term is obtained by subtracting 7 from the previous term

In Row 1

$$216, 216 - 7 = 209, 209 - 7 = 202$$

In Row 2

$$522, 522 - 7 = 515, 515 - 7 = 508$$

In Row 3

$$633, 633 - 7 = 626, 626 - 7 = 619$$

So ? = 619

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Question 182

(15, 12) (44, 28) (64, 53)

3 8 ?

A 30

B 13

C 70

D 118

Answer: B

Explanation:

$$(15 + 12)/9 = 3$$

$$(44 + 28)/9 = 8$$

Similarly

$$(64 + 53)/9 = 13$$

Question 183

95, 115, 145, 155, ?

A 215

B 175

C 185

D 165

Answer: C

Explanation:

The pattern followed is that each number is the result of product of '5' and consecutive prime numbers starting with 19.

$$5 \times 19 = 95$$

$$5 \times 23 = 115$$

$$5 \times 29 = 145$$

$$5 \times 31 = 155$$

$$5 \times 37 = 185$$

=> Ans - (C)

Question 184

1, 3, 8, 19, 42, ?

A 65

B 71

C 89

D 93

Answer: C

Explanation:

The Series follows the pattern

1

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

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

$$8 \times 2 + 3 = 19$$

$$19 \times 2 + 4 = 42$$

$$42 \times 2 + 5 = 89$$

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Instructions

For the following questions answer them individually

Question 185

Rohan walks a distance of 3 km towards North, then turns to his left and walks for 2 km. He again turns left and walks for 3 km. At this point he turns to his left and walks for 3 km. How many kilometres is he from the starting point ?

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

Answer: A

Explanation:

Rohan's positions wrt to starting point are as follows

3 km towards North

turns to his left and walks for 2 km: $\sqrt{13}$ towards NW

turns left and walks for 3 km: 2 km west

turns to his left and walks for 3 km.: 1 km EAST.

hence the correct answer is option A

Question 186

Rani and Santa started from a place X. Rani went West and Santa went North, both travelling with the same speed. After sometimes, both turned their left and walked a few steps. If they again turned to their left, in which directions' the faces of Rani and Santa will be with respect to X ?

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

Answer: B

Explanation:

for santa: the directions with respect to X are: N-W-S

for Rani the directions with respect to X are: W-S-W.

Hence the correct answer is North and West that is option B

Instructions

In each of the following questions, one/two statements are given followed by three conclusions. You have to consider the statements to be true even if they seem to be at variance from commonly known facts. You have to decide which of the given conclusions, if any, follow from the given statements.

Question 187

Statement 1 : Water has no shape, has volume.

Statement 2 : The knowledge is, like water, flowed from one side to other.

Conclusion 1 : The knowledge is interdisciplinary

Conclusion 2 : The knowledge is bound within a specific area.

Conclusion 3 : The knowledge influences the core of mental activity directly.

- A Only Conclusion 1 follows.

- B Only Conclusion 2 follows.
- C Both Conclusions 1 and 2 follow.
- D Both conclusions 1 and 3 follow.

Answer: D

Explanation:

From the statements it is clear that knowledge is interdisciplinary. Mental activity is related to acquired knowledge.

Thus, both conclusions I and III follow.

=> Ans - (D)

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Question 188

Statements :

Some ladies are beautiful. Some beautifuls are honest. All honest are sensitives.

Conclusion 1 : Some sensitives are beautifuls.

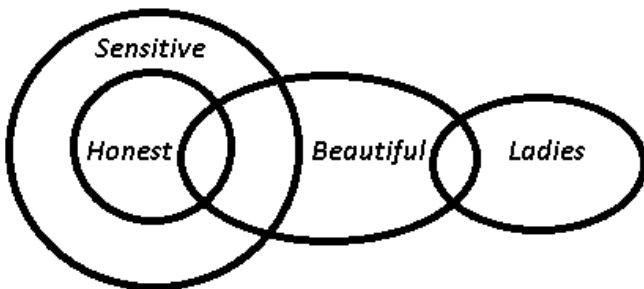
Conclusion 2 : Some honest are ladies.

Conclusion 3 : Some sensitives are ladies.

- A None of the Conclusion follows.
- B Only Conclusion 1 follows.
- C Only Conclusions 1 and 2 follow.
- D All Conclusions follow.

Answer: B

Explanation:



Clearly, some sensitives are definitely beautiful. Some honest may or may not be ladies. Similarly, some sensitive may or may not be ladies.

Thus, only Conclusion 1 follows.

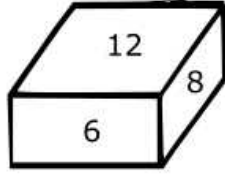
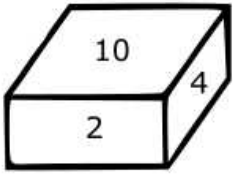
=> Ans - (B)

Instructions

For the following questions answer them individually

Question 189

From the given blocks when 10 is at the bottom, which number will be at the top ?

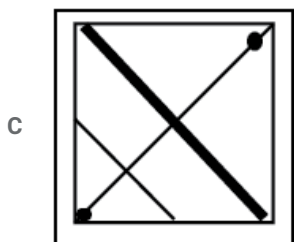
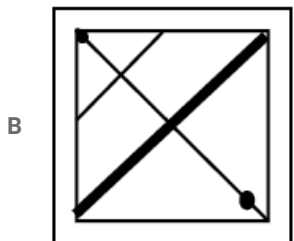
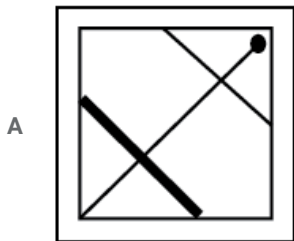
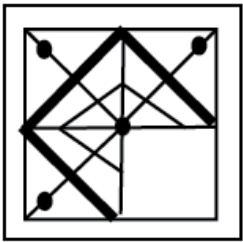


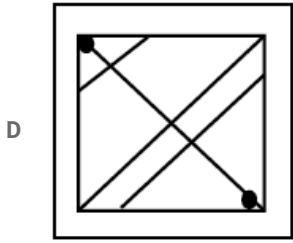
- A 8
- B 12
- C 6
- D 4

Answer: B

Question 190

Which one of the answer figures shall complete the given question figure ?





Answer: B

Explanation:

To complete the above figure, we need a dark black diagonal in a square. It should touch the bottom left to top right, which is possible in option (B).

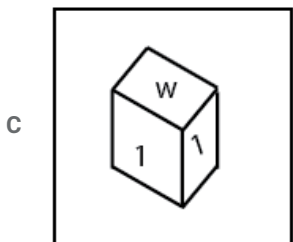
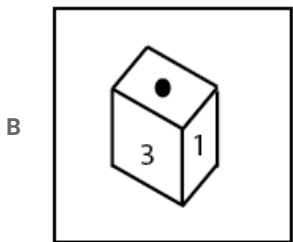
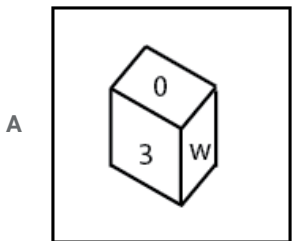
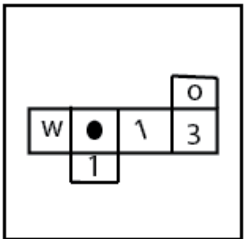
Ans - (B)

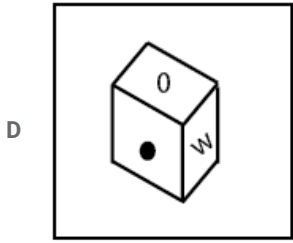
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Question 191

Which of the four cubes pictured below are correct view when the six squares are folded (in clockwise direction) into a cube ?

Question Figure :





Answer: A

Explanation:

When the six squares are folded, we get :

3 lies opposite black dot

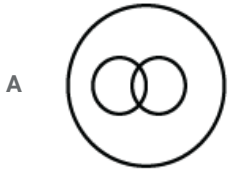
W lies opposite slanted 1

1 lies opposite white dot

Thus, Ans - (A)

Question 192

Which one of the following diagrams best depicts the relationship among pen, pencils, stationery ?



Answer: C

Explanation:

Both pens and pencils are part of stationery, and also pens are different from pencils.

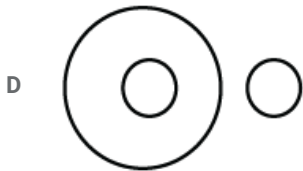
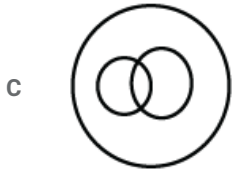
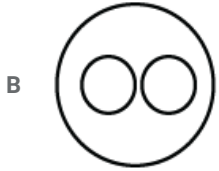
Thus, the venn diagram that best describe above relationship is :



Ans - (C)

Question 193

Indicate which figure will best represent the relationship amongst the three :
Legumes Seeds, Peas, Kidney Beans



Answer: B

Explanation:

Both peas and kidney beans are part of legumes. Also peas and kidney beans are different.

Thus, the venn diagram the best describes their relation is:

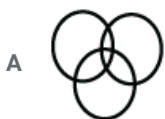


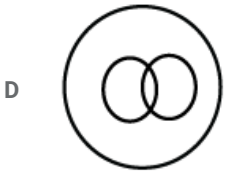
Ans - (B)

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Question 194

Which one of the following diagrams best depicts the relationship among
Black eyed people, Brown haired people, Indian





Answer: A

Explanation:

India can consist both black eyed people and brown haired people.

Similarly, A black eyed person can have brown hair and belong to India, and also a brown haired person can have black eyes and belong to India.

Thus, the venn diagram that best depicts above relationship is :

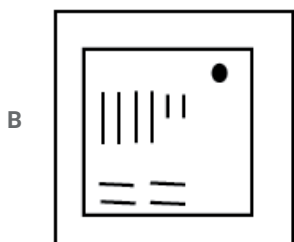
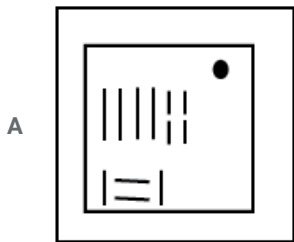
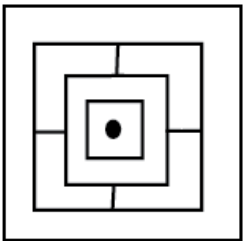


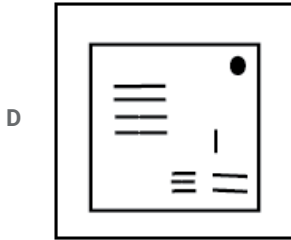
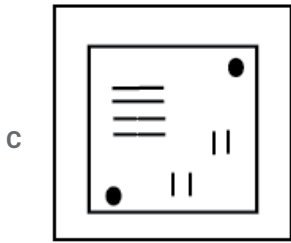
Ans - (A)

Question 195

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

Question Figure :





Answer: A

Explanation:

In the question figure, there are two outer squares which are given in all the options, if we look inside it, we find :

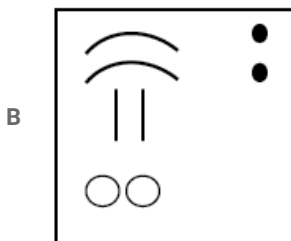
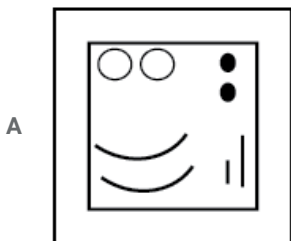
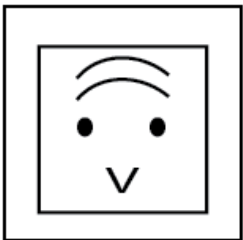
two squares of different length, one black dot, and four straight lines of length less than the smaller square of the two.

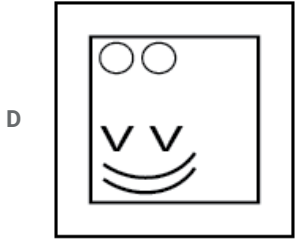
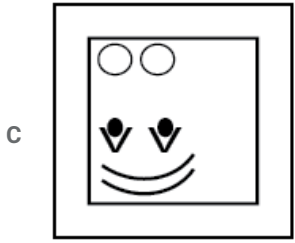
Thus we need : 12 straight lines ($4 \times 2 + 4$) in group of 3 (each group of different lengths) and one black dot which is clearly given in option (A)

Ans - (A)

Question 196

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





Answer: B

Explanation:

To make up the question figure, we need :

two black dots, two straight lines of equal length and two curved lines

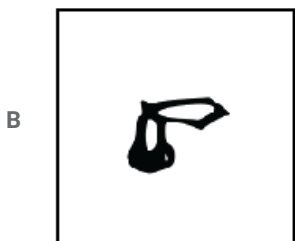
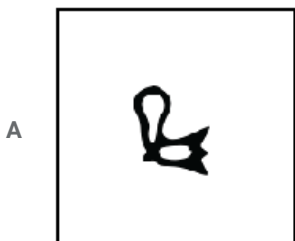
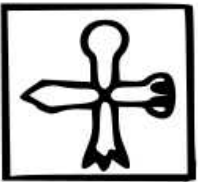
These objects are clearly given in option (B)

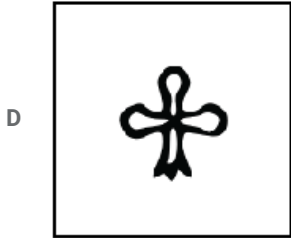
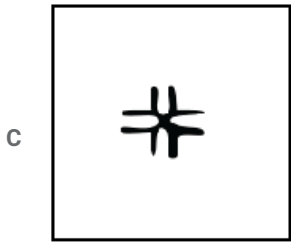
Ans - (B)

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Question 197

Which one of the answer figures is hidden in the following question figure ?





Answer: C

Explanation:

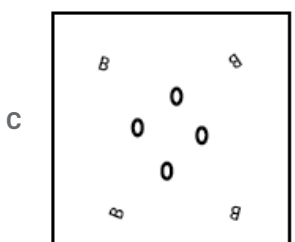
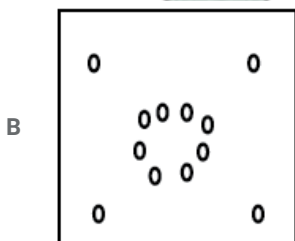
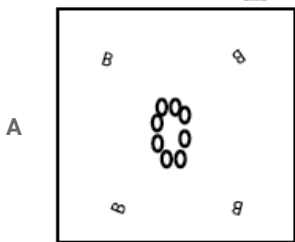
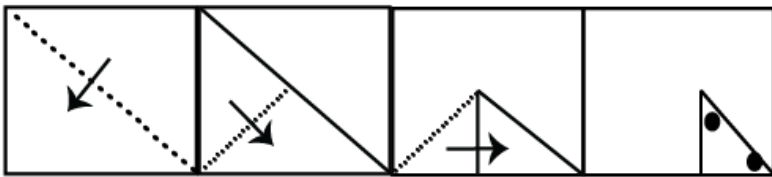
If we look closely at the middle of the picture, there is a group of 'U shape figure' in all 4 directions which is clearly given in option (C)

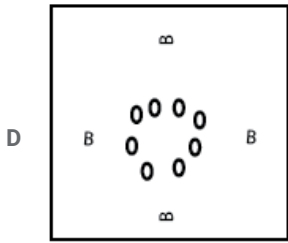
Ans - (C)

Question 198

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

Question Figure :

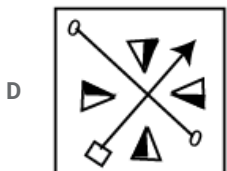
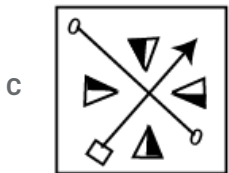
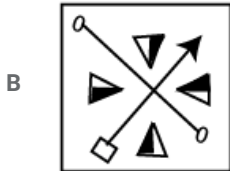
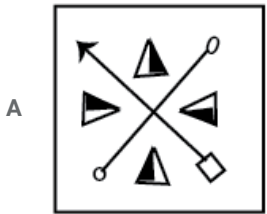




Answer: A

Question 199

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



Answer: D

Explanation:

The arrow in the original image is pointing to the top left, thus it will point to top right in the mirror image.

=> (A) is eliminated

Now, in all the triangles given, the black part is on the right side (when seen from the base of each). Thus, in its mirror image, the black portion of the triangle will appear on the left side for all the triangles, which is given only in option (D)

Ans - (D)

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Question 200

In the following question, a word is represented by a set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by alphabets as in the matrices given below. The columns and rows of matrix are numbered from 1 to 6. A letter from these matrices can be represented first by its row and next by its column number, e.g., 'A' can be represented by 42, 'S' can be represented by 21, etc. Similarly, you have to identify the set for the word 'PLAY'.

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

- A 43, 36, 42, 23
- B 43, 32, 33, 33
- C 15, 12, 42, 45
- D 43, 65, 62, 45

Answer: D

Explanation:

as can be seen from the table, the alphabets and the numbers corresponding to them are:

P:43

L:65

A:62

Y:45

hence the correct answer is option D

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