



SSC CGL 2013 Tier 1 19 May Evening Shift

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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 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 one of the following 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 is the example for Plural Executive ?

- 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 one of the following parts 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 one of the following animals 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

Identify the LIFO (last In First Out) structure among the following:

- 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 which type of solutions

- 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

- 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

Explanation:

ENGLISH COMPREHENSION

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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 a
- 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 a

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 anew, 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

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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: C

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

Passage -1

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

Passage – II

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:

$$24010000 = (7*7*7*7)*(10*10*10*10)$$

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

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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.

=> 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 A and B in 12 days, by B and C in 15 days and by C and A in 20 days. A alone will complete the work in

A 30 days

B 32 days

C 36 days

D 42 days

Answer: A

Explanation:

LCM of (12,15,20) = 60

let assume that total 60 units of work is there

Given that (A+B) together takes 12 days to complete 60 units of work

and hence (A+B)'s 1 day work = 5 unit.....(1)

Given that (B + C) together takes 15 days to complete 60 units of work

and hence (B + C)'s 1 day work = 4 unit.....(2)

Given that (C + A) together takes 20 days to complete 60 units of work

and hence (A + C)'s 1 day work = 3 unit.....(3)

Adding equation 1, 2, 3

$$2(A+B+C) = 12 \text{ units}$$

So, (A+B+C)'s 1 day work = 6 unit.....(4)

From equation 2 and 4

A's 1 day work = 2 units

hence A will take = $\frac{60}{2} = 30$ 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 assume the amount of work be 180 units

It is given that 3 men can do 180 units of work in = 12 days

then 1 men's 1 day work = 5 units

6 men's 1 day work = $6 \times 5 = 30$ units

Now it is also given that 5 women do the same amount of work of 180 units in = 12 days

so, 5 women's 1 day work = 15 units

Now, (6 men + 5 women)'s 1 day work = $(30+15) = 45$ units

So, number of days required by (6 men + 5 women) to complete 180 units of work = $\frac{180}{45} = 4$ 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:

LCM of (12,15,20) = 60

let assume that total 60 units of work is there

Given that (A+B) together takes 12 days to complete 60 units of work

and hence (A+B)'s 1 day work = 5 unit.....(1)

Given that (B + C) together takes 15 days to complete 60 units of work

and hence (B + C)'s 1 day work = 4 unit.....(2)

Given that (C + A) together takes 20 days to complete 60 units of work

and hence (A + C)'s 1 day work = 3 unit.....(3)

Adding equation 1, 2, 3

$2(A+B+C) = 12$ units

So, (A+B+C)'s 1 day work = 6 unit(4)

From equation 2 and 4

A's 1 day work = 2 units

hence A will take = $\frac{60}{2} = 30$ days

Question 106

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

A $\frac{X}{\pi-1}$ unit

B $\frac{X}{\pi+1}$ unit

C $\frac{X}{\pi}$ unit

D $(\frac{X}{\pi} - 1)$ unit

Answer: A

Explanation:

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 $\frac{\pi a^2 v}{v}$

D $\frac{4\pi v}{a^2}$

Answer: D

Explanation:

Perimeter of base = $2\pi r = a$

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

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, then volume of both will be equal and rise of water level is equal to the height of cylinder.

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

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

$$\Rightarrow h = \frac{9 * 4}{36} = 1 \text{ cm}$$

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 C.P. = $100x$

$$20\% \text{ above marked price} = \frac{20}{100} * 100x = 20x$$

$$\Rightarrow \text{M.P.} = 100x + 20x = 120x$$

$$\text{Discounted amount} = \frac{15}{100} * 120x = 18x$$

$$\Rightarrow \text{S.P.} = 120x - 18x = 102x$$

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

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 M.P. = $100x$

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

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

Let C.P. = $100y$

Now, we need to find $\frac{y}{x}$

Profit % = 12%

$$\Rightarrow \frac{90x - 100y}{100y} * 100 = 12$$

$$\Rightarrow 2250x = 2800y$$

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

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:

Marked price = 160

After 1st discount of 10% \Rightarrow 10% of 160 = $\frac{10}{100} * 160 = 16$

Amount payable = 160 - 16 = 144

Let 2nd discount = $x\%$

After 2nd discount of $x\%$

$$\Rightarrow x\% \text{ of } 144 = \frac{x}{100} * 144 = 1.44x$$

$$\Rightarrow \text{Customer will pay} = 144 - 1.44x = 122.40$$

$$\Rightarrow 1.44x = 21.6$$

$$\Rightarrow x = 15$$

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 number of boys = $100x$ and number of girls = $100y$

We need to find $\frac{100x}{100y} = \frac{x}{y}$

10% of girls = $\frac{10}{100} * 100y = 10y$

1/20th of boys = $\frac{1}{20} * 100x = 5x$

Now, both of these are equal

$$\Rightarrow 5x = 10y$$

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

\Rightarrow Required ratio = 2 : 1

Question 113

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

A 5 : 3

B 5 : 6

C 1 : 25

D 25 : 1

Answer: D

Explanation:

we need to find $25^{2.5} : 5^3$

$$= 5^{(2.5 \times 2)} : 5^3$$

$$= 5^5 : 1$$

$$= 25 : 1$$

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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 $\frac{abcde}{5}$

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

D $a + 4$

Answer: D

Explanation:

given that a,b,c,d,e are consecutive odd numbers

So

$$b = a+2$$

$$c = a+4$$

$$d = a+6$$

$$e = a+8$$

$$\text{average} = \frac{\text{sum of numbers}}{\text{Number of Numbers}}$$

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

$$= a+4$$

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:

Given that average of 20 numbers = 15

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

$$\text{Sum of all numbers} = 20 \times 15 = 300$$

$$\text{Average of first five numbers} = 12$$

$$\text{So sum of first five numbers} = 12 \times 5 = 60$$

$$\text{Sum of numbers left} = 300 - 60 = 240$$

$$\text{Number of numbers left} = 20 - 5 = 15$$

$$\text{So average of left numbers} = \frac{240}{15} = 16$$

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 = $100x$

$$\text{Loss amount} = \frac{20}{100} * 100x = 20x$$

$$\Rightarrow \text{S.P.} = \$100x - 20x = 80x$$

$$\text{Gain amount} = \frac{5}{100} * 100x = 5x$$

$$\Rightarrow 100x + 5x = 105x$$

Now, according to question

$$\Rightarrow 80x + 100 = 105x$$

$$\Rightarrow x = 4$$

$$\Rightarrow \text{Cost price} = 4 * 100 = 400$$

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 = $100x$

After decreasing it by 20% $\Rightarrow \frac{20}{100} * 100x = 20x$

\Rightarrow The price becomes = $100x - 20x = 80x$

Now, increasing it by 30% $\Rightarrow \frac{30}{100} * 80x = 24x$

\Rightarrow The price becomes = $80x + 24x = 104x$

Now, $104x = 416$

$\Rightarrow x = 4$

\Rightarrow Original Price = $4 * 100 = 400$

Question 118

A man performs $\frac{2}{15}$ of the total journey by train, $\frac{2}{20}$ of remaining 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: D

Explanation:

let the total journey be y km

as it is mentioned that the man performs $\frac{2}{15}$ of the total journey by train, So, the remaining journey = $\frac{13y}{15}$

the man completed $\frac{2}{20}$ by bus and hence the remaining journey after this = $\frac{18 \times 13y}{15 \times 20} = \frac{39y}{50}$

It is given that $\frac{39y}{50} = 10$ Km

$y = 12.8$ 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 usual time(T_1) be T minutes .

and here we can see that Distance between office and home remains same.

So this is the case when distance traveled is constant

let the normal speed (S_1) = S m/min

So the changed speed (S_2) = $\frac{3}{4} S$

$T_2 = (T + 20)$ minutes

hence , $\frac{S_1}{S_2} = \frac{T_2}{T_1}$

$$\frac{4S}{3S} = \frac{T+20}{T}$$

$T = 60$ minutes

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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 Rate of Interest be R and Principal Amount be Rs P

So, $R = 12\%$

Time Period (T) = 2 years

$$\text{Compound Interest} = P\left(1 + \frac{R}{100}\right)^T - P$$

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

$P = \text{Rs } 10000$

$$\text{Now SI with same rate of interest} = \frac{P \times R \times T}{100} = \frac{10000 \times 12 \times 2}{100} = \text{Rs } 2400$$

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 $y = 4$

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

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

Question 122

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

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

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

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

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

$$\frac{1}{1-a} + \frac{1}{1-b} + \frac{1}{1-c} - 3 = 1$$

$$\frac{1}{1-a} + \frac{1}{1-b} + \frac{1}{1-c} = 4$$

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Question 123

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

A 12

B 9

C 3

D 1

Answer: C

Explanation:

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

Since square values are always positive or equal to zero, x must be 3, y must be 5 and z must be 4.

Substituting these values in $\frac{x^2}{9} + \frac{y^2}{25} + \frac{z^2}{16}$, we get the value as $1+1+1 = 3$.

Option C is the right answer.

Question 124

If $3^{4x} + 2p = 12$ for what value of $p, x = 6$?

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

Answer: C

Explanation:

Expression : $3^{4x} + 2p = 12$

Putting $x = 6$

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

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

Question 125

Find the value of $\frac{4+3\sqrt{3}}{7+4\sqrt{3}}$ is

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

Answer: A

Explanation:

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

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

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

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

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Question 126

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

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

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

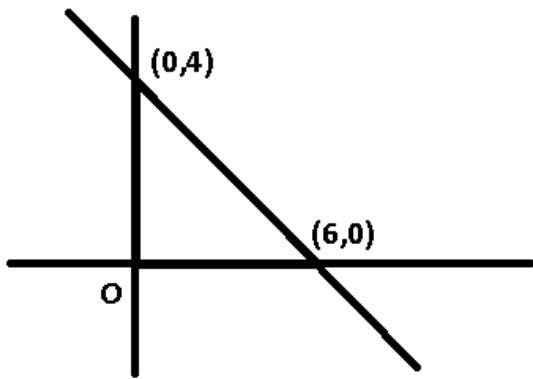
B 1st, 2nd and 4th quadrant

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 $\triangle ABC$, $\angle A + \angle B = 65^\circ$, $\angle B + \angle C = 140^\circ$, 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 : $\angle B + \angle C = 140^\circ$

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

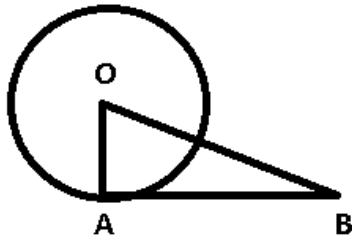
Question 131

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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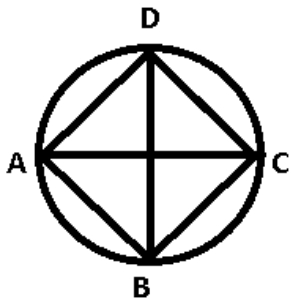
Question 132

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 $\frac{\theta}{2}$
- 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

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

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

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

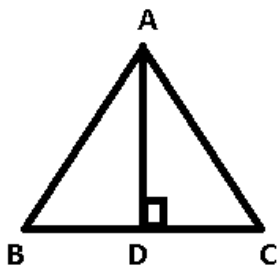
Question 133

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 $\triangle ADC$

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

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

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

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

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

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

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

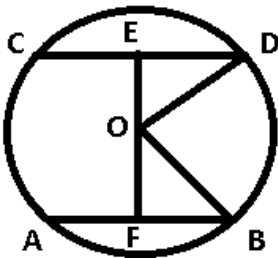
Question 134

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

Now, BF = 12/2 = 6 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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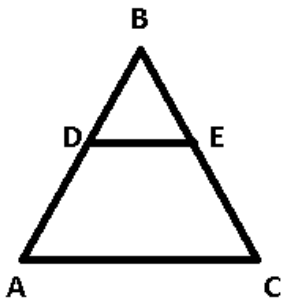
Question 135

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, $DE \parallel AC$

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

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

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

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

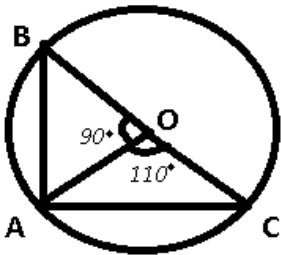
Question 136

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

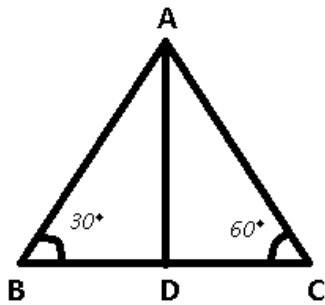
B $\frac{1}{2}$ km

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

D $3\sqrt{3}$ km

Answer: A

Explanation:



$BC = 2$ km

Let $BD = x \Rightarrow DC = (2-x)$

In $\triangle ABD$

$$\Rightarrow \tan \angle ABD = \frac{AD}{BD}$$

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

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

Now, In $\triangle ADC$

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

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

$$\Rightarrow 2\sqrt{3} - 3AD = AD$$

$$\Rightarrow AD = \frac{\sqrt{3}}{2}$$

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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:

We need to find value of : $3 \cos 80^\circ \operatorname{cosec} 10^\circ + 2 \cos 59^\circ \operatorname{cosec} 31^\circ$

$$3 \cos 80 \operatorname{cosec} (90-80) + 2 \cos 59 \operatorname{cosec} (90 - 59)$$

$$3 \cos 80 \sec 80 + 2 \cos 59 \sec 59$$

as, $\cos 80 \sec 80 = \cos 59 \sec 59 = 1$, then

$$3 \cos 80 \sec 80 + 2 \cos 59 \sec 59 = 3 + 2 = 5$$

Question 139

$(3\pi/5)$ radians is equal to

- A 100°
- B 120°
- C 108°
- D 180°

Answer: C

Explanation:

To convert an angle from radians to Degree, we multiply the given value in radian with $\frac{180}{\pi}$

$$\text{So } \frac{3\pi}{5} \times \frac{180}{\pi} = 108^\circ$$

Question 140

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

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

Answer: A

Explanation:

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

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

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

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

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

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

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Question 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:

Given that :

$x \cos \theta - y \sin \theta = 2$ (1)

$x \sin \theta + y \cos \theta = 4$ (2)

Squaring both the equations and adding them.

$(x \cos \theta - y \sin \theta)^2 + (x \sin \theta + y \cos \theta)^2 = 4+16$

$x^2 \cos^2 \theta - 2xy \cos \theta \sin \theta + y^2 \sin^2 \theta + y^2 \cos^2 \theta + 2xy \cos \theta \sin \theta + x^2 \sin^2 \theta = 20$

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

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

$x^2 + y^2 = 20$

Question 142

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

A $0 \leq \theta < 90$

B $0 < \theta < 90$

C $\theta = 0^\circ$

D $\theta = 90^\circ$

Answer: D

Explanation:

Given that $\sin^2 \theta - 3 \sin \theta + 2 = 0$

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

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

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

here,

$\sin \theta = 2$ is not a possible value as max value of $\sin \theta = 1$

and so $\sin \theta = 1$

and $\sin \theta$ takes value 1 at $\theta = 90$ degree

Question 143

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

A 1

B 3

C 2

D 4

Answer: C

Explanation:

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

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

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

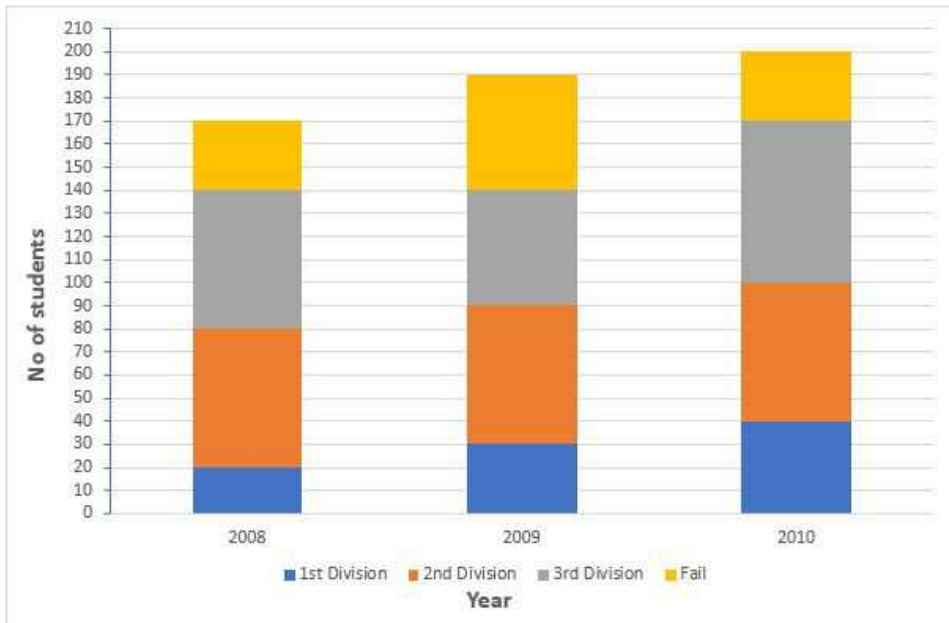
$$\frac{\cos^2 A \sin^2 A(\sin A + \cos A)}{(\sin A - \cos A)} + \frac{\sin^2 \cos^2 A(\sin A - \cos A)}{(\sin A + \cos A)} = \cos^2 A \sin^2 A \left(\frac{\sin A + \cos A}{(\sin A - \cos A)} + \frac{\sin A - \cos A}{(\sin A + \cos A)} \right)$$

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

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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 $\frac{3}{8}$ %
- 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

$$\Rightarrow \text{Required \%} = \frac{20}{170} * 100 = \frac{200}{17}$$

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

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:

No. of students passed in 2008 = (Students passed in 1st div) + (Students passed in 2nd div) + (Students passed in 3rd div)
 = 20+60+60 = 140

Total no. of students in 2008 = 170

$$\Rightarrow \text{Required \%} = \frac{140}{170} * 100 = \frac{1400}{17}$$

$$= 82\frac{6}{17} \%$$

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:

No. of pass students in 2008 = 20+60+60 = 140

Total students in 2008 = 170

$$\Rightarrow \% \text{ of pass students in 2008} = \frac{140}{170} * 100 = 82.35\%$$

No. of pass students in 2009 = 30+60+50 = 140

Total students in 2009 = 190

$$\Rightarrow \% \text{ of pass students in 2009} = \frac{140}{190} * 100 = 73.68\%$$

No. of pass students in 2010 = 40+60+70 = 170

Total students in 2010 = 200

$$\Rightarrow \% \text{ of pass students in 2010} = \frac{170}{200} * 100 = 85\% \text{ [MAX]}$$

Thus, in 2010 the school has the best result.

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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:

No. of students passed in 3rd division in 2008 = 60

Ans - (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:

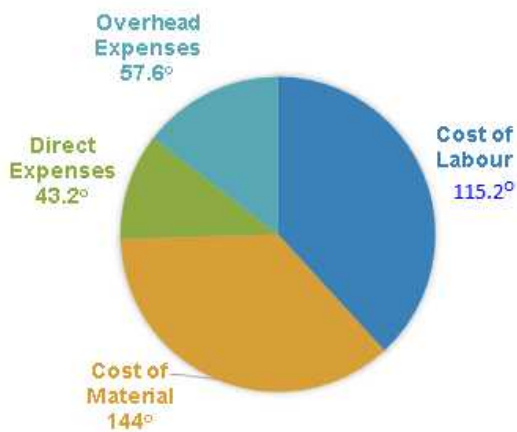
No. of students passed in 2nd div in 2010 = 60

Total students in 2010 = 200

$$\Rightarrow \text{Required \%} = \frac{60}{200} * 100 = 30\%$$

Instructions

Following figure is Pie-chart representing itemwise cost of 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:

From the graph, we can see that cost of labour represents 115.2 %.

$$\Rightarrow \text{Cost of labour} = (115.2/360) * 96,000$$

Cost of labour = Rs. 30,720.

Option A is the right answer.

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Question 150

The difference of cost of material and direct expenses is

A 26,000

B 10,000

C 26,500

D 26,880

Answer: D

Explanation:

Difference between cost of material and direct expenses = $144 - 43.2 = 100.8\%$

Difference in rupees = $(100.8/360) * 96000 = \text{Rs. } 26,880$.

Option D is the right answer.

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Reasoning

Instructions

For the following questions answer them individually

Question 151

9 : 7 :: 80 : ?

A 47

B 50

C 78

D 82

Answer: C

Explanation:

Expression = 9 : 7 :: 80 : ?

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

Eg = $9 : 9 - 2 = 9 : 7$

Similarly, $80 - 2 = 78$

\Rightarrow 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 : **VUYZ**

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

=> Ans - (B)

SSC CGL Tier-2 Previous Papers PDF

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:

Expression : a_ _b abba_abb a_ba

The pattern is that in a group of 4 letters, the combination of 2 a's and 2 b's are used.

=> aabb abba aabb abba

=> Ans - (A)

Question 156

AZB_ , AZ _Y, A _BY, _ ZBY

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

Answer: A

Explanation:

here in this question every term is AZBY

so the given pattern is AZB_ , AZ _Y, A _BY, _ ZBY

in order to fulfill this we need to fill " YBZA" from left to right in the blanks ..

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:

here the given pattern is 102, 101, 98, 93, 86, 74, 66, 53

as we can see that

$$102 - 101 = 1$$

$$101 - 98 = 3$$

$$98 - 93 = 5$$

$$93 - 86 = 7$$

as we can see that the difference between consecutive terms is increasing by 2 in every case but when we check

$86 - 74 = 12$ we see that the pattern is not getting fulfilled in case of 74 so in order to make the same pattern the term should be 77 in spite of 74.

lets check with 77

$$86 - 77 = 9$$

hence it is confirmed that the wrong number is 74

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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:

In the given set 1,5,12,the third is twice the sum of first 2 terms.This is true for option B too.Hence B is the answer.

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:

here the given pattern is ELFA, GLHA, ILJA, ?, MLNA

we can see that first term of every pattern is alternative term E, G, I so first term for the missing element is K

2nd term of missing element is L in all cases. so here it is also L

3rd term in all cases is again alternative terms starting from F, and continued as H, J and hence the 3rd term of missing pattern is L

and 4th term in every case is A

so the missing pattern is KLLA

General Science Notes for SSC CGL

Question 164

2, 18, 34, 50, 66, ?, 98

A 82

B 100

C 105

D 125

Answer: A

Explanation:

Let the missing term be y

As we can see that,

2, 18, 34, 50, 66, ?, 98

$$18 - 2 = 16$$

$$34 - 18 = 16$$

$$50 - 34 = 16$$

$$66 - 50 = 16$$

here in every case the difference between consecutive terms is 16 and hence

$$y - 66 = 16$$

$$y = 82$$

Question 165

FGHJKLNOPRS ?

A T

- B M
- C Q
- D U

Answer: A

Explanation:

As the given pattern is FGHJKLNOPRS ?

and we need to find the next term after S.

Here we can see that " FGH" are consecutive alphabets and then one alphabet is missed and again next three consecutive alphabets "JKL" are written and then again one alphabet is missed and next three consecutive alphabets " NOP" are written, So now again next alphabet which is "Q" is missed and next three consecutive alphabets will be written which is RST.

and hence we can say that our missed alphabet is 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: B

Explanation:

Consecutive odd numbers are added to the numbers.

$$0 + 3 = 3$$

$$3 + 5 = 8$$

$$8 + 7 = 15$$

$$15 + 9 = 24$$

$$24 + 11 = 35$$

Also, the two consecutive letters are pair of opposite letters.

=> Ans - (B) : w - 35

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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 the age of father be 10z and Son be z years

given that average age of father and son = 22 years

$$\frac{10z+z}{2} = 5.5z = 22$$

$$z = 4$$

So age of Son = 4 years

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 the ages be represented the names.

Given Smith < Veni

Salim < Smith

Salim < Raju

We can conclude that

Salim < Smith < Vani and Salim < Raju

Hence Salim is the youngest

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:

Rachel's position can be traced as follows :

start

1. 15 m north
2. 5 m south
3. 5 m south and 10 m east
4. 10 m east.

stop. she is finally 10 m east of her starting position.

option D.

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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:

From the letters of the word HETEROGENOUS all the words except GENERATE can be formed as there is no 'A' in HETEROGENOUS . option B.

Question 171

UNEQUIVOCAL

- A EQUAL
- B VOCAL
- C QUAIN T
- D NAIVE

Answer: C

Explanation:

From the letters of the word UNEQUIVOCAL, all the words can be completely formed except QUAIN T as there is no 'T' in UNEQUIVOCAL . option C.

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. Y M L O S B C I

1 2 3 4 5 6 7 8

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

Answer: B

Explanation:

The meaningful word is SYMBOLIC. From the given numbers for the letters in question,SYMBOLIC is represented by 51264387

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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:

If A=1, B=2 and so on then, each letter will be coded as twice the number assigned to it. therefore FRANCE will be coded as: 12 - 36 - 2 - 28 - 6 - 10. 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:

If each of the letters in the English alphabet is assigned odd numerical value beginning A = 1, B = 3 and so on, then

H=15

O=29

T=39

E=9

L=23 therefore HOTEL will be equal to $15+29+39+9+23=115$

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 in a certain code, MAARK is written as KRAAM, then the pattern here is that any word be coded by reversing it completely therefore PASSI will be coded as ISSAP. option A.

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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:

The result in all the operations is given by multiplying all the digits.

For eg., $29 \times 48 = 576$

576 is equal to product of the digits 2,9,4,8

$42 \times 17 = ?$

The product of digits 4,2,1,7 is 56

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:

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

$12 \times 6 + 15 - 16 \div 4 = 83$. option C.

Question 178

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

A $B + C \lvert A$

B $C - B + A$

C $B \lvert A \lvert C$

D $A \Phi B \lvert C$

Answer: B

Explanation:

$A \lvert B \times C$ translates to $A < B = C$

(A.) $B > C < A$. This is not consistent with the given statement.

(B.) $C = B > A$ or $C > B > A$. This can be true.

(C.) $B < A < C$. This is not consistent with the given statement.

(D.) $A < B < C$ or $A = B < C$. This is not consistent with the given statement.

Hence the only apt choice is B.

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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:

$2M = N$ and $2N \leq 3K$

Option A. $2M \geq 3K$ is false according to premise.

Option B. Similarly $2M$ can't be equal to $3K$

Option C. $2M$ is less than $3K$ in accordance to premise.

Hence Option C.

Instructions

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

Question 180

| | | |
|------|-------|-----|
| 5430 | 11242 | ?28 |
| 24 | 70 | 38 |

A 176

B 166

C 116

D 66

Answer: D

Explanation:

Number obtained by leaving the first two digits from right - the first two digits from right = Required value.

$54 - 30 = 24$

$112 - 42 = 70$

$x - 28 = 38$

$x = 66$

Hence Option D is the correct answer.

Question 181

| | | |
|-----|-----|-----|
| 216 | 209 | 202 |
| 522 | 515 | 508 |
| 633 | 626 | ? |

- A 620
- B 608
- C 602
- D 619

Answer: D

Explanation:

The difference between the values in consecutive columns is 7.
 The missing term will be 7 less than 626 which is 619.
 Hence Option D is the correct answer.

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Question 182

| | | |
|-------|-------|-------|
| 15 12 | 44 28 | 64 53 |
| 3 | 8 | ? |

- A 30
- B 13
- C 70
- D 118

Answer: B

Question 183

95, 115, 145, 155, ?

- A 215
- B 175
- C 185
- D 165

Answer: C

Explanation:

Each term is 5 times the prime number immediately next to the prime number of the preceding term.

$19 \times 5 = 95$

$23 \times 5 = 115$

and so on.

$155 = 31 \times 5$

Hence next term must be $37 \times 5 = 185$

Option C is the correct answer.

Question 184

1, 3, 8, 19, 42, ?

- A 65
- B 71

C 89

D 93

Answer: C

Explanation:

The difference between each term in the series is 1 more than twice the difference between the previous two terms.

$$3-1=2$$

$$8-3=5$$

$$19-8=11$$

$$42-19=23$$

Therefore the missing term must be 47 more than 42 which is 89

Hence Option C is the correct answer.

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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

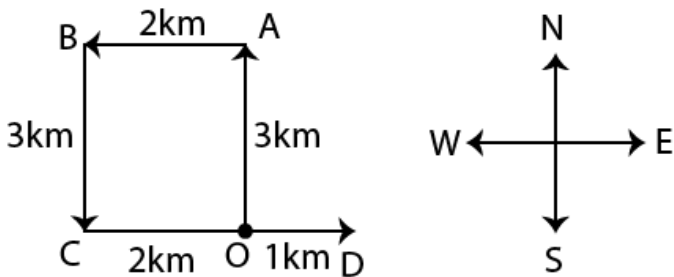
C 3 km

D 4 km

Answer: A

Explanation:

Rohan's path can be traced as -O-A-B-C-D.



it can be seen that Rohan is 1km east of his home. 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: D

Explanation:

For Rani : WEST turned left towards SOUTH then turned left towards EAST.
For Santa: NORTH turned left towards WEST then turned left towards SOUTH.
option D.

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:

The above statements clearly indicate that like water, knowledge does not have any boundaries, thus the second conclusion does not follow.

But, knowledge is interdisciplinary, i.e. has more than one branch, and the knowledge also influences the core of mental activity directly.

Thus, both conclusions 1 and 3 follow.

=> Ans - (D)

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Question 188

Statements :

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

Conclusion 1 : Some sensitives are beautiful.

Conclusion 2 : Some honest are ladies.

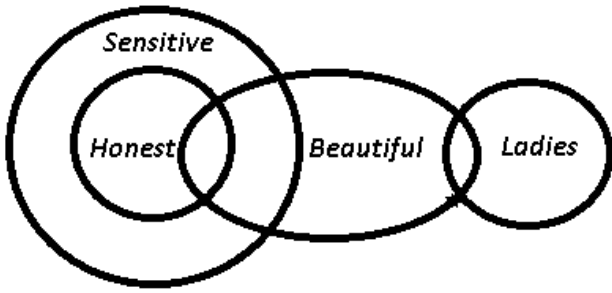
Conclusion 3 : Some sensitives are ladies.

- 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:

The venn diagram for above statements is :



Conclusion 1 : Some sensitives are beautiful = true

Conclusion 2 : Some honest are ladies = false

Conclusion 3 : Some sensitives are ladies = false

Thus, only Conclusion 1 follows.

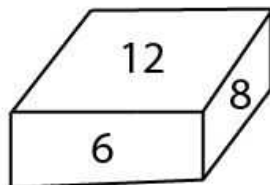
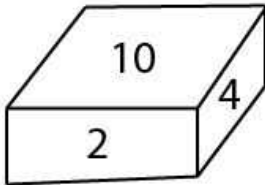
=> Ans - (B)

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

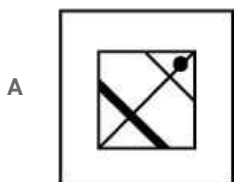
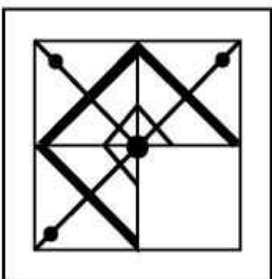
Answer: B

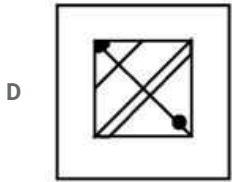
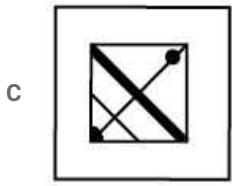
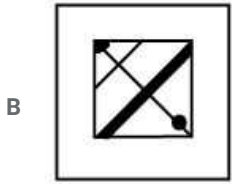
Explanation:

From given figures, 10 and 12 are on opposite faces. Hence, when 10 is on top, 12 is on bottom.

Question 190

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





Answer: B

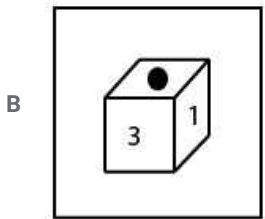
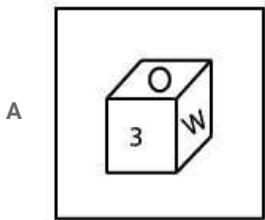
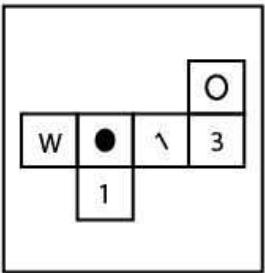
Explanation:

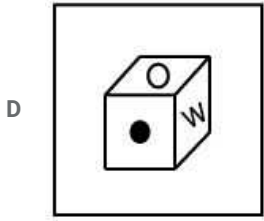
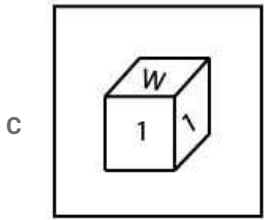
The reflection of first quadrant is given by option B.

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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 ?





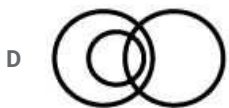
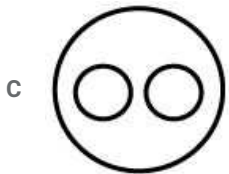
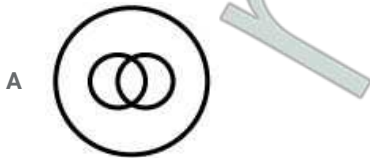
Answer: A

Explanation:

Interpreting the cube from the question figure, option A is correct view

Question 192

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



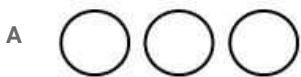
Answer: C

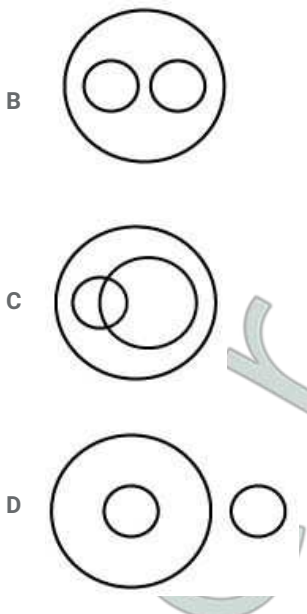
Explanation:

Pens and pencils are 2 different types of stationery. Hence option C best depicts the relationship.

Question 193

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





Answer: B

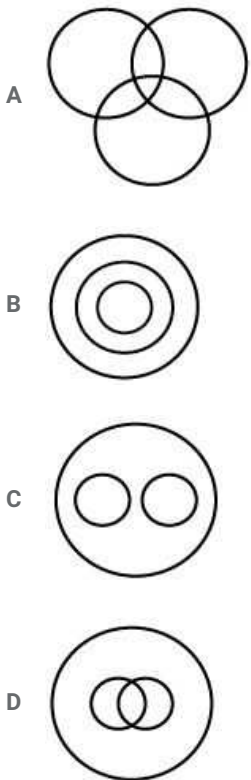
Explanation:

Peas and Kidney beans both are types of Legumes seeds.

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Question 194

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



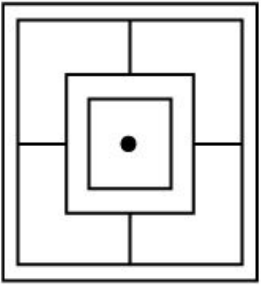
Answer: A

Explanation:

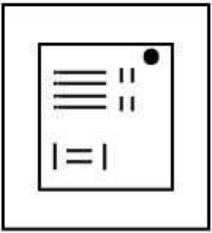
There is an intersection between all the 3 entities.Hence option A best depicts the relationship.

Question 195

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



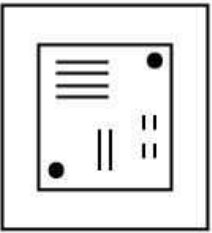
A



B



C



D



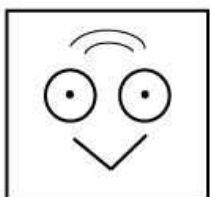
Answer: A

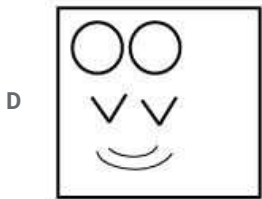
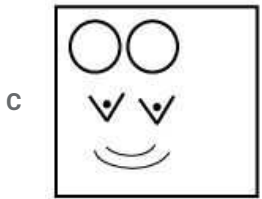
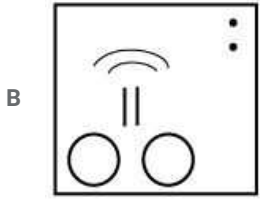
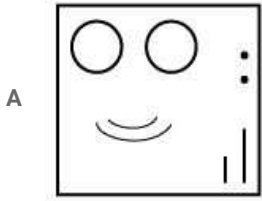
Explanation:

All the parts of question figure are present in option A

Question 196

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





Answer: B

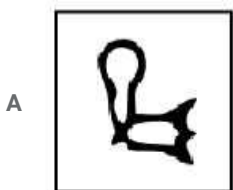
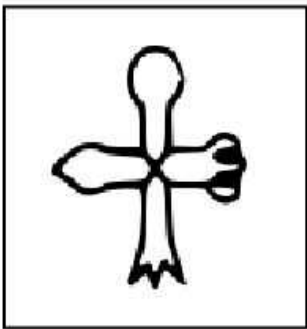
Explanation:

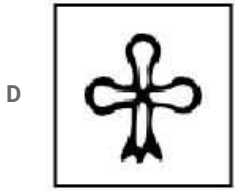
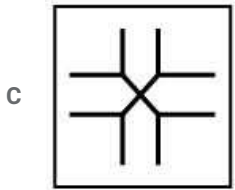
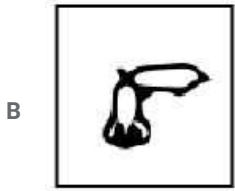
There has to be 2 dots, 2 equal circles, 2 equal lines and 2 unequal arcs which all are present in option B.

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Question 197

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





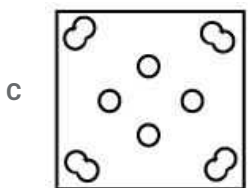
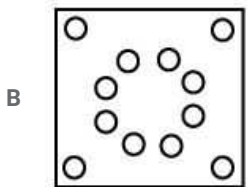
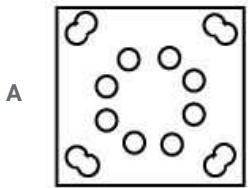
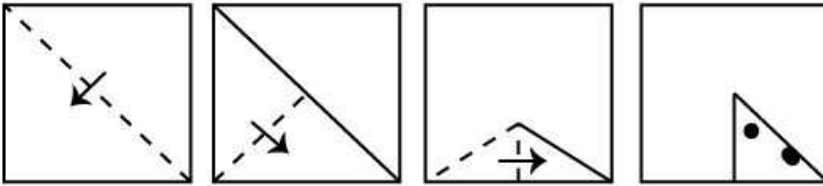
Answer: C

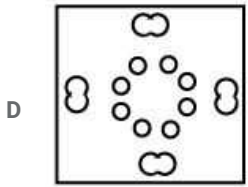
Explanation:

When we remove the tips of question figure, we obtain option 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.





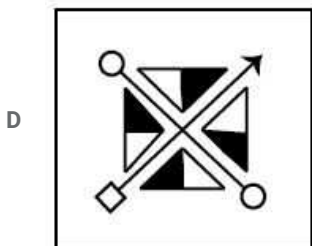
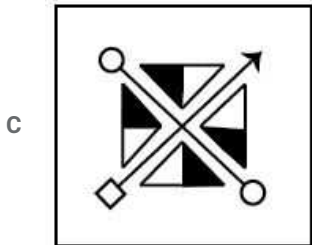
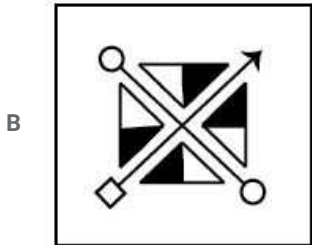
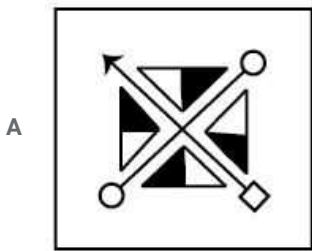
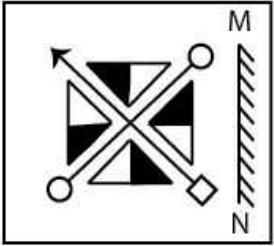
Answer: A

Explanation:

The double hole will be present 4 times at the corners. The single hole will be present 8 times as shown in option 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 180 degree rotation of the given image is shown in option 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:

P can be represented by 43

L can be represented by 65

A can be represented by 62

Y can be represented by 43

Hence, option D

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