



SSC CGL 2014 Tier 1 20 July First Sitting

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General Awareness

Instructions

For the following questions answer them individually

Question 1

Wildlife Protection Act was implemented in India in

- A 1972
- B 1986
- C 1964
- D 1956

Answer: A

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Question 2

Which one of the following is a Sedimentary Rock ?

- A Granite
- B Charnockite
- C Basalt
- D Arkose

Answer: D

Question 3

Highly specialized form of agriculture in which crops like coffee, tea and rubber are cultivated refer to

- A multiple cropping
- B plantation agriculture
- C terrace farming
- D extensive farming

Answer: B

Question 4

International Ozone Day is celebrated on

- A 5th September
- B 16th September
- C 11th September
- D 20th September

Answer: B

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Question 5

In India, coal fields are mainly found in which valley?

- A Cauvery Valley
- B Krishna Valley
- C Ganga Valley
- D Damodar Valley

Answer: D

Question 6

The newly hatched tadpole breaths through its

- A Lung
- B External gills
- C Internal gills
- D All of the above

Answer: B

Question 7

Virus in Latin means

- A Sweet
- B Small
- C Fluid
- D Poison

Answer: D

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Question 8

The biological process in which both aerobes and anaerobes degrade organic matter is

- A Manuring
- B Composting
- C Digesting
- D Nitrifying

Answer: B

Question 9

Statement I : Complex tissue is made up of more than one type of cells.

Statement II : Meristems are examples of permanent tissue.

- A Statement I is correct, but Statement II is incorrect.
- B Statement I is incorrect, but Statement II is correct.
- C Both statements I and II are correct.
- D Both statements I and II are incorrect.

Answer: A

Question 10

The cuticle is absent in

- A Leaf
- B Stem
- C Root
- D Fruit

Answer: C

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Question 11

Intercalary meristems are found in

- A Node
- B Lateral bud
- C Terminal bud
- D Inter node

Answer: D

Question 12

Super conductors are substances that

- A offer minimum resistance to flow of electric current
- B conduct electricity at low temperature
- C conduct electricity at high temperature
- D offer high resistance to the flow of electric current

Answer: A

Question 13

A thin oil film on a water surface appears coloured because of

- A reflection
- B interference
- C diffraction
- D polarization

Answer: B

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Question 14

A tachometer is a device used to measure

- A gravitational pull
- B speed of rotation
- C surface tension
- D dispersive power

Answer: B

Question 15

When cathode rays strike a target of high atomic weight, they give rise to

- A a-rays
- B β and γ rays
- C X-rays
- D positive rays

Answer: C

Question 16

Different computers are connected to a LAN by a cable and a

- A modem
- B interface card
- C special wires
- D telephone lines

Answer: B

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Question 17

Which one of the following was the top exporter company of software in 2001 in India ?

- A Infosys
- B TCS
- C Sun
- D Wipro

Answer: B

Question 18

The major use of sulphur is in the manufacture of

- A H₂SO₄
- B H₂S
- C SO₂
- D Fungicide

Answer: A

Question 19

Atoms of different elements have

- A same atomic number and same electronic configuration
- B different atomic number and same electronic configuration
- C different atomic number and different number of valence electrons
- D same number of electrons and neutrons

Answer: C

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Question 20

Which of the following pairs is correctly matched ?

- A Vitamin-A : Scurvy
- B Vitamin-B : Rickets
- C Vitamin-C: Nightblindness
- D Vitamin-E : Reproduction

Answer: D

Question 21

Organic compounds are

- A Covalent compounds
- B Ionic compounds

C Co-ordination compounds

D Interstitial compounds

Answer: A

Question 22

Major pesticidal properties are present in

A Jatropha

B Castor

C Pongamia

D Jamun

Answer: B

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Question 23

The 'Greenhouse effect' is mainly due to increase in atmospheric

A Ozone

B Nitrogen

C Sulphur dioxide

D Carbon dioxide

Answer: D

Question 24

Which of the following is not dealt under Section 3c: of the Environment (Protection) Act, 1986 ?

A The Biodiversity Authority

B The Coastal Zone Management Authority

C Authority set-up to monitor the State of Notified Ecologically Sensitive Areas

D Protection of Plant Varieties and Farmers Right Authority

Answer: D

Question 25

Which of the following statements is true ?

A Animals worry about raising their family

B Animals make several feeding trips in a day

C Animals often behave sensibly

D Animals do not know meaning of brotherhood

Answer: B

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Question 26

Green blocks are referred to

- A Green cover
- B Green Ministry
- C Bio-bricks
- D Pro-biotic curd

Answer: C

Question 27

India celebrated its "Polio free status" during the month of

- A December 2013
- B January 2013
- C January 2010
- D February 2014

Answer: D

Question 28

Telangana State is the bifurcation of

- A Tamil Nadu
- B Andhra Pradesh
- C Seemandhra
- D Odisha and Tamil Nadu

Answer: B

Question 29

Which of the following is not correct ?

- A CISF - Central Industrial Security Force
- B BSF - Border Security Force
- C UNDP - United Nation's Development Project
- D SIT- Special Investigation Team

Answer: C

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Question 30

A book entitled "The Hindus : An Alternative History" is written by

- A Shobha De
- B B.R. Ambedkar
- C Wendy Doniger
- D Salman Rushdie

Answer: C

Question 31

The father of Economics is

- A Marshall
- B Adam Smith
- C J.M. Keynes
- D Karl Marx

Answer: B

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Question 32

Which country awards Nobel Prize ?

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

Answer: B

Question 33

The first nuclear explosion in India was conducted at

- A Pokhran
- B Bombay
- C Nellie
- D Sriharikota

Answer: A

Question 34

Jawahar Rozgar Yojana was introduced in

- A Fifth Five Year Plan
- B Sixth Five Year Plan
- C Seventh Five Year Plan
- D Eighth Five Year Plan

Answer: C

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Question 35

The sweetmeat is referred to

- A Camel meat
- B Goat meat
- C Feta cheese
- D Petha of Agra

Answer: D

Question 36

Capital market deals with

- A Short term fund
- B Long term fund
- C Cash
- D Both long and short term funds

Answer: B

Question 37

The new Agricultural Strategy in India was introduced in

- A 1956
- B 1966
- C 1976
- D 1986

Answer: B

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Question 38

The sale of branded articles is common in a situation of

- A excess capacity
- B monopolistic competition
- C monopoly
- D pure competition

Answer: B

Question 39

Production refers to

- A destruction of utility
- B creation of utilities
- C exchange value
- D use of a product

Answer: B

Question 40

The law of diminishing returns applies to

- A All sectors
- B Industrial sector
- C Agricultural sector
- D Service sector

Answer: A

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Question 41

Bureaucracy literally means a system of government by

- A Elected representative
- B Nominated representative
- C Officials
- D Group of landlords

Answer: C

Question 42

A federal government is in the shape of

- A Command by the Centre
- B Appeal from the States

C Agreement between the Centre and the States

D Single Party Rule

Answer: C

Question 43

Parliamentary or Presidential Government can be distinguished mainly by

A its federal nature

B the rigidity of the Constitution

C the employer-employee relations

D the legislative-executive relations

Answer: D

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Question 44

The phrase "equality before law" used in Article-14 of Indian Constitution has been borrowed from

A U.S.A.

B Germany

C Britain

D Greece

Answer: C

Question 45

Who said, 'The State exists because crime exists in society, otherwise there would be no need of a State' ?

A Herbert Spencer

B J.S. Mill

C John Locke

D Tocqueville

Answer: A

Question 46

The Quit India Resolution (1942) proposed the starting of a non-violent mass struggle on the widest possible scale. Who gave the mantra "Do or Die" for this struggle ?

A Mahatma Gandhi

B Subhash Chandra Bose

C Jawaharlal Nehru

D Sardar Vallabhbhai Patel

Answer: A

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Question 47

Napoleon got finally overthrown in the Battle of Waterloo in the year

- A 1814
- B 1813
- C 1815
- D 1816

Answer: C

Question 48

Who was the first Woman President of Indian National Congress ?

- A Sarojini Naidu
- B Sucheta Kripalani
- C Rajkumari Annrit Kaur
- D Annie Besant

Answer: D

Question 49

The famous Sun Temple at Konark was built by

- A Prataparudra
- B Anantavarman
- C Narasimha-I
- D Narasimha-II

Answer: C

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Question 50

Ashok spread Buddhism all over India and Ceylon by

- A Teaching the Triratnas
- B Sending the Dharma Mahamatras
- C Waging wars
- D Becoming a Buddhist Monk

Answer: B

Explanation:
ENGLISH COMPREHENSION

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English

Instructions

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

Question 51

Barbarous

- A Ancient
- B Civilized
- C Gentle
- D Savage

Answer: B

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Question 52

Heighten

- A Widen
- B Decrease
- C Strengthen
- D Dissolve

Answer: B

Question 53

Dubious

- A Shady
- B Delirious
- C Laconic
- D Certain

Answer: D

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 54

To be a successful lawyer, one must know how to dot one's i's and cross one's t's.

- A complete one task at a time
- B write great letters
- C deal with paperwork
- D be detailed and exact

Answer: D

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Question 55

When Ramu lost the money, he was down in the dumps.

- A accusing others of stealing
- B searching everywhere (check spelling)
- C sad and depressed
- D very angry at himself

Answer: C

Question 56

He turned up his nose at my offer..

- A was taken aback by my offer
- B found it hard to believe my offer
- C treated my offer with contempt
- D could not accept my offer

Answer: C

Question 57

There are no hard and fast rules that cannot be relaxed on such an occasion.

- A that is difficult to solve
- B that can be altered
- C that is very quick
- D that cannot be altered

Answer: D

Question 58

Her father strained every nerve to enable her to get settled in life.

- A worked very hard
- B spent a huge amount
- C tried all tricks
- D bribed several persons

Answer: A

Instructions

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

Question 59

The speaker got confused, and started to contradict himself.

- A oppose himself
- B argue against
- C reject
- D No improvement

Answer: D

Question 60

The number of people going abroad for vacations is ever increasing every year.

- A ever increasing
- B increasing
- C shooting
- D No improvement

Answer: B

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Question 61

Looking at the pictures of his old home made him nostalgic.

- A romantic
- B historical
- C philosophic
- D No improvement

Answer: D

Question 62

I met him in the way.

- A on the way
- B at the way
- C during the way
- D No improvement

Answer: A

Question 63

I shall appreciate if you kindly accept my proposal.

- A I would appreciate if
- B I shall appreciate it if
- C I would have appreciate if
- D No improvement

Answer: B

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Question 64

Rajesh is not very-well these days.

- A in poverty
- B unwell
- C indifferent
- D No improvement

Answer: B

Question 65

Nothing about the accident has come to her knowledge.

- A was learnt by her
- B has been known by her
- C is known to her
- D No improvement

Answer: C

Question 66

Will you let me borrow some money in this hour of need ?

- A lend me some rupees
- B let me borrow a few rupees
- C lend me some money
- D No improvement

Answer: C

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Question 67

The autumn season of Parliament will begin on Monday.

- A session
- B cession
- C mission
- D No improvement

Answer: A

Question 68

The boy said that he has read the book.

- A he has already read
- B he had read
- C he has finished to read
- D No improvement

Answer: B

Instructions

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

Question 69

A state where no law and order exists

- A Monarchy
- B Mobocracy
- C Anarchy
- D Democracy

Answer: C

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Question 70

He is my partner in crime.

- A Friend
- B Accomplice
- C Neighbour
- D Companion

Answer: B

Question 71

Her speech could not be heard by those sitting in the last few rows.

- A Imperceptible
- B Indelible
- C Inaudible
- D Ineffable

Answer: C

Question 72

A short trip or excursion

- A Rambler
- B Jaunt
- C Detour
- D Stroller

Answer: B

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Question 73

Motive or incitement to action

- A Remark
- B Contract
- C Proposition
- D Incentive

Answer: D

Question 74

Science or practice of map drawing

- A Chirography
- B Xerography
- C Cartography
- D Pictography

Answer: C

Question 75

A speaker's platform

- A Stage
- B Stand
- C Pulpit
- D Podium

Answer: D

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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 76

- A Conoiseeur
- B Conoisneur
- C Connoisseur
- D Cannoisseur

Answer: C

Question 77

- A Miscellaneous
- B Miscelaneous
- C Misscellaneous
- D Miscelleneous

Answer: A

Instructions

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

Passage I

Opera refers to a dramatic art form, originating in Europe, in which the emotional content is conveyed to the audience as much through music, both vocal and

instrumental, as it is through the lyrics. By contrast, in musical theatre an actor's dramatic performance is primary, and the music plays a lesser role. The drama in opera is presented using the primary elements of theatre such as scenery, costumes and acting. However, the words of the opera, or libretto, are sung rather than spoken. The singers are accompanied by a musical ensemble ranging from a small instrumental ensemble to a full symphonic orchestra.

Question 78

It is pointed out in the passage that opera

- A has developed under the influence of musical theatre
- B is a drama that is not dependent on music.
- C is not a high-budget production.
- D is originated in Europe.

Answer: D

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Question 79

We can understand from the passage that

- A audiences are captivated more by the lyrics than by the music.
- B in opera lyrics are as important as the music.
- C orchestras in operas do not vary in size.
- D musical theatre relies, above all, on music.

Answer: B

Question 80

it is stated in the passage that

- A acting and costumes are secondary to music in musical theatre.
- B many people find musical theatre more captivating than opera.
- C music in musical theatre is not as important as it is in opera.
- D an opera requires a huge orchestra as well as a large choir.

Answer: C

Question 81

A libretto is

- A the main character who is the liberator at the climax of the scene.
- B the words of the opera.
- C a musical composition which is played in a slow leisurely manner.

D the sequence of well controlled, graceful movements performed as a display of skill.

Answer: B

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Question 82

The word "conveyed" also means

A transmit

B tote

C keep

D dissuade

Answer: A

Instructions

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

These days we hear a lot about science, but scientists, the men and women who do the work and make the discoveries, seem distant and strange to us. Science often appears to be very difficult and sometimes even magical. It is difficult of course, but we are wrong if we believe that we cannot understand it. The chief thing about the scientific method is that we get the answers to questions by making tests. The man, to take an example, who finds his bicycle tyre is flat will pump some air into it. Suppose one hour later the tyre is flat again, if the man is wise, he will first test the valve in water. If he finds air is escaping from it he will put in a new piece of valve-rubber and then pump up the tyre. All should then be well again. This man is using a simple form of scientific method. If the man was very 'unscientific' he might say to himself that an evil spirit had caused the tyre to go flat.

Question 83

What do people talk a lot about these days ?

A science

B magic

C men and women

D work

Answer: A

Question 84

What is the common man's attitude towards scientists ?

A They are wrong.

B They seem distant and strange.

C They are wise.

D They are difficult.

Answer: B

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Question 85

If we use the scientific method how do we get answers to questions ?

- A By believing
- B By example
- C By making tests
- D By methods

Answer: C

Question 86

If a man does not use the scientific approach, what will he attribute the flat tyre to ?

- A An evil spirit
- B The rubber valve
- C The bicycle
- D Magic

Answer: A

Question 87

The antonym of believe is

- A reveal
- B disbelieve
- C agree
- D deny

Answer: B

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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 88

They dreamed of a society (a)/ where everyone (b)/ were equal. (c)/ No error (d)

- A They dreamed of a society
- B where everyone

C were equal

D No error

Answer: C

Question 89

On Senegal (a)/ it is considered impolite (b)/ if you do not share your food. (c)/ No error (d)

A On Senegal

B it is considered impolite

C if you do not share your food

D No error

Answer: A

Question 90

We discussed about, the problem thoroughly (a)/on the eve of the examination (b)/ that I found it very easy to work it out. (c)/ No error (d)

A We discussed about, the problem thoroughly

B on the eve of the examination

C that I found it very easy to work it out

D No error

Answer: A

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Question 91

The wise father told him (a)/ that the mangoes had gone bad as they were (b)/ in contact with the one rotten mango. (c)/ No error (d)

A The wise father told him

B that the mangoes had gone bad as they were

C in contact with the one rotten mango

D No error

Answer: C

Question 92

The box of eggs (a)/ are lying (b)/ on the table. (c)/ No error (d)

A The box of eggs

B are lying

C on the table

D No error

Answer: B

Instructions

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

Question 93

James Wattthe steam engine.

A invented

B discovered

C founded

D find

Answer: A

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Question 94

After saying that Beverly made too many mistakes, Bob added insult to injury by saying

A they were small mistakes

B she worked very slowly

C her work was excellent

D work at a remarkable pace

Answer: B

Question 95

Losing that job was a blessing in disguise because she

A get a much better job

B lost her house

C unemployed for years

D was able to shop

Answer: A

Question 96

All teachers agree that Paresh is the..... intelligent boy in his class.

A more

B most

C very

D only

Answer: B

Question 97

The State is home to several destinations ofbeauty.

A paralleled

B unparalleled

C inequal

D equal

Answer: B

Instructions

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

Question 98

Tepid

A Hot

B Warm

C Cold

D Boiling

Answer: B

Question 99

Canny

A Obstinate

B Proud

C Stout

D Clever

Answer: D

Question 100

Humane

A Sympathetic

B Spirit

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C Straight

D Source

Answer: A

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Quant

Instructions

For the following questions answer them individually

Question 101

In what ratio must 25% of alcohol be mixed with 50% of alcohol to get a mixture of 40% strength alcohol ?

A 1 : 2

B 2 : 1

C 2 : 3

D 3 : 2

Answer: C

Explanation:

let the amount of 25% alcohol and 50% alcohol added be y ltr and z ltr respectively .

It is given that solution should have 40% alcohol content

So ,

$$\frac{(25y+50z)}{y+z} = 40$$

$$\frac{y}{z} = \frac{2}{3}$$

General Science Notes for SSC CGL

Question 102

Find two mean proportionals between 2 and 54.

A 6 and 18

B 6 and 12

C 12 and 18

D 6 and 9

Answer: A

Explanation:

Let the numbers be 2 , a , b , 54.

$$a = \frac{2b}{54}$$

$$ab = 108$$

Only Option A gives the product as 108

Question 103

A man had 7 children. When their average age was 12 years, a child aged 6 years died. The average age of remaining six children is

- A 13 years
- B 10 years
- C 11 years
- D 14 years

Answer: A

Explanation:

initially the number of children = 7

Average age = 12 years

So using average = $\frac{\text{sum}}{\text{number of elements}}$

Sum of ages of 7 children = $12 \times 7 = 84$ years

Now it is given that a child of age 6 years is dead and hence new total age = $84 - 6 = 78$

Number of persons after the death of 6 year old child = 6

New average = $\frac{78}{6} = 13$

Question 104

The average marks obtained by 22 candidates in an examination are 45. The average marks of the first 10 candidates are 55 and those of the last eleven are 40. The number of marks obtained by the eleventh candidate is

- A 45
- B 0
- C 50
- D 47.5

Answer: B

Explanation:

given that average marks obtained by 22 students = 45

And average of first 10 students = 55

Average of last 11 students = 40

So using, average = $\frac{\text{sum}}{\text{number of elements}}$

Sum of marks of all 22 students = $22 \times 45 = 990$

Sum of students of first 10 students = $55 \times 10 = 550$

Sum of last 11 students = $11 \times 40 = 440$

So marks obtained by 11th student = $990 - (550 + 440) = 0$

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Question 105

A shop-keeper sold a sewing machine for 1,080 at a loss of 10%. At what price should he have sold it so as to gain 10% on it ?

- A 1,069

- B 1,200
- C 1,230
- D 1,320

Answer: D

Explanation:

Original S.P. = 1080

Loss % = 10%

Let C.P. = x

$$\Rightarrow \frac{x-1080}{x} * 100 = 10$$

$$\Rightarrow 9x = 10800 \Rightarrow x = 1200$$

Profit % = 10%

$$\Rightarrow \text{Profit amount} = \frac{10}{100} * 1200 = 120$$

New S.P. = 1200+120 = 1320

Question 106

A man invested 27,000 in 12 1/2% stock at 108, then his yield percentage is

- A $18\frac{3}{4}$
- B $11\frac{31}{54}$
- C 15
- D $8\frac{1}{2}$

Answer: B

Explanation:

yield % = $\frac{\text{Dividend}}{\text{Stock Price}} * 100\%$

$$= \frac{12.5}{108} * 100 = \frac{625}{54}$$

$$= 11\frac{31}{54}\%$$

Question 107

Santa and Julie start walking from the same place in the opposite directions. If Julie walks at a speed of 2.5 km/hr and Santa at a speed of 2 km/hr, in how much time will they be 18 km apart ?

- A 4.0 hrs
- B 4.5 hrs
- C 5.0 hrs
- D 4.8 hrs

Answer: A

Explanation:

here it is given that speed of Santa and Julie are 2.5km/hr and 2km/hr respectively

As it is mentioned that both are going in opposite direction then relative speed = 2.5+2 = 4.5 km/hr

Using Distance = Speed × Time

Distance = 18km

$$18 = 4.5 \times T$$

$$T = 4 \text{ hours}$$

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Question 108

Two trains 125 metres and 115 metres in length, are running towards each other on parallel lines, one at the rate of 33 km/hr and the other at 39 km/ hr. How much time (in seconds) will they take to pass each other from the moment they meet ?

- A 8
- B 10
- C 12
- D 15

Answer: C

Explanation:

length of first train and 2nd train is given as 125 m and 115 m respectively and the speed of train with length 125 m and 115 m is 33km/hr and 39km/hr respectively .

$$\text{Total length} = 115 + 125 = 240\text{m}$$

$$\text{Relative speed} = 33 + 39 = 72 \text{ km/hr} = 72 \times \frac{5}{18} = 20\text{m/s}$$

Using Distance = Speed x Time

$$\text{Time to cross each other} = \frac{240}{20} = 12 \text{ sec}$$

Question 109

A sum of money at compound interest will amount to 650 at the end of the first year and 676 at the end of the second year. The amount of money is

- A 1,300
- B 650
- C 1,250
- D 625

Answer: D

Explanation:

let the sum of money be Rs P

and Rate of Interest be R% per annum

$$\text{Compounded Amount} = P \left(1 + \frac{R}{100}\right)^n$$

n - number of time periods

$$\text{Compounded amount after 1 year} = P \left(1 + \frac{R}{100}\right)^1 = 650 \dots\dots\dots(1)$$

$$\text{Compounded amount after 2 year} = P \left(1 + \frac{R}{100}\right)^2 = 676 \dots\dots\dots(2)$$

Dividing both equation 1 and equation 2

$$\left(1 + \frac{R}{100}\right) = 1.04$$

and from here it can be concluded that R = 4% . Now using equation 1 and value of R

$$P(1 + \frac{4}{100})^1 = 650$$

$$P = \text{Rs } 625$$

Question 110

The simplest form of the expression $\frac{p^2-p}{2p^3+6p^2} + \frac{p^2-1}{p^2+3p} + \frac{p^2}{p+1}$

A $2p^2$

B $\frac{1}{2p^2}$

C $p + 3$

D $\frac{1}{p+3}$

Answer: B

Explanation:

$$\frac{p^2-p}{2p^3+6p^2} = \frac{p(p-1)}{2p^2(p+3)} = \frac{(p-1)}{2p(p+3)}$$

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

$$\frac{p^2}{p+1} = \frac{p^2}{p+1}$$

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

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Question 111

If $a+b+c=4\sqrt{3}$ and $a^2 + b^2 + c^2 = 16$, then the ratio $a : b : c$ is

A 1 : 1 : 1

B $1:\sqrt{2}:\sqrt{3}$

C 1 : 2 : 3

D None of these

Answer: A

Explanation:

$$(a + b + c)^2 = a^2 + b^2 + c^2 + 2(ab + bc + ac)$$

$$48 = 16 + 2(ab+bc+ac)$$

$$32 = 2(ab+bc+ac)$$

$$ab+bc+ac=16.....(1)$$

$$\text{as } a^2 + b^2 + c^2 = 16.....(2)$$

using 1 and 2

$$a=b=c$$

Question 112

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

- A 20
- B 4
- C 8
- D 16

Answer: B

Explanation:

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

and

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

so the value of

$$(x^2 + \frac{1}{x^2})(x^3 + \frac{1}{x^3}) = (4-2)(2(4-3)) = 4$$

Question 113

If a, b, c be all positive integers, then the least positive value of $a^3 + b^3 + c^3 - 3abc$ is

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

Answer: C

Explanation:

$$a^3 + b^3 + c^3 - 3abc = (a+b+c)((a^2 + b^2 + c^2) - ab - bc - ac)$$

we will get minimum value when a=b=c as all are positive so the minimum value is 0

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Question 114

If $a+b=1, c+d=1$ and $a-b = \frac{d}{c}$ then the value of $c^2 - d^2$ is

- A $\frac{a}{b}$
- B $\frac{b}{a}$
- C 1
- D -1

Answer: B

Explanation:

We know that $a - b = \frac{d}{c}$ and $a + b = 1$

Dividing eqn (1) by (2), we get :

$$\Rightarrow \frac{a-b}{a+b} = \frac{d}{c}$$

Using componendo and dividendo rule :

$$\Rightarrow \frac{a-b+a+b}{a+b-(a-b)} = \frac{d+c}{c-d}$$

$$\Rightarrow \frac{a}{b} = \frac{1}{c-d}$$

$$\Rightarrow c-d = \frac{b}{a} \text{ and it is given that } c+d=1$$

\Rightarrow Multiplying the two equations, we get :

$$\Rightarrow (c-d)(c+d) = 1 * \frac{b}{a}$$

$$\Rightarrow c^2 - d^2 = \frac{b}{a}$$

Question 115

When $f(x) = 12x^3 - 13x^2 - 5x + 7$ is divided by $(3x + 2)$, then the remainder is

- A 2
- B 0
- C -1
- D 1
- E Non of these

Answer: D

Explanation:

in order to find out remainder when $f(x) = 12x^3 - 13x^2 - 5x + 7$ is divided by $(3x + 2)$

we will use remainder theorem, according to which $f(-\frac{2}{3})$ will give the remainder

$$\text{So, } f(-\frac{2}{3}) = 12(-\frac{2}{3})^3 - 13(-\frac{2}{3})^2 - 5(-\frac{2}{3}) + 7 = 1$$

remainder = 1

Question 116

If $x = 3t, y = \frac{1}{2}(t + 1)$ then the value of t for which $x = 2y$ is

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

Answer: B

Explanation:

Given that $x = 3t, y = \frac{1}{2}(t + 1)$

if $x = 2y$

$$3t = 2y$$

$$2y = 2 * \frac{1}{2} * (t + 1)$$

$$3t = t + 1$$

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

Question 117

If $x^2 + \frac{1}{5}x + a^2$ is a perfect square then a is

- A $\frac{1}{100}$
- B $\frac{1}{5}$
- C $\frac{1}{10}$
- D 10

Answer: C

Explanation:

Expression : $x^2 + \frac{1}{5}x + a^2$

$$= [(x^2) + (2 * \frac{1}{10} * x) + (\frac{1}{10})^2] + a^2 - (\frac{1}{10})^2$$

$$= (x + \frac{1}{10})^2 + a^2 - (\frac{1}{10})^2$$

Now, for the above expression to be perfect square,

$$\Rightarrow a^2 - (\frac{1}{10})^2 = 0$$

$$\Rightarrow a^2 = (\frac{1}{10})^2$$

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

Question 118

In a cyclic quadrilateral ABCD $m\angle A + m\angle B + m\angle C + m\angle D = ?$

- A 90°
- B 360°
- C 180°
- D 120°

Answer: B

Explanation:

In a cyclic quadrilateral, the sum of opposite angles = 180°

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

$$\text{and } \angle B + \angle D = 180^\circ$$

$$\Rightarrow \angle A + \angle B + \angle C + \angle D = 180^\circ + 180^\circ = 360^\circ$$

Question 119

In a right angled triangle, the circumcentre of the triangle lies

- A inside the triangle
- B outside the triangle
- C on midpoint of the hypotenuse

D on one vertex

Answer: C

Explanation:

It is a property of a circumcentre that in a right angled triangle, it always lies on the mid point of its hypotenuse.

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Question 120

If two angles of a triangle are 21° and 38° , then the triangle is

- A Right-angled triangle
- B Acute-angled triangle
- C Obtuse-angled triangle
- D Isosceles triangle

Answer: C

Explanation:

Two angles of triangle are 21° and 38° .

Let third angle be θ

$$\Rightarrow 21^\circ + 38^\circ + \theta = 180^\circ$$

$$\Rightarrow \theta = 180^\circ - 59^\circ = 121^\circ$$

Since, $\theta > 90^\circ$, \Rightarrow It is obtuse angled triangle.

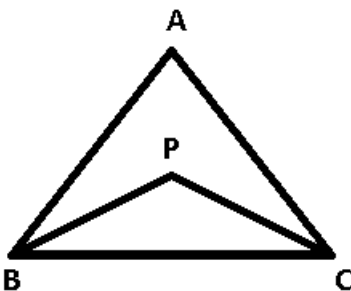
Question 121

Angle between the internal bisectors of two angles of a triangle $\angle B$ and $\angle C$ is 120° , then $\angle A$ is

- A 20°
- B 30°
- C 60°
- D 90°

Answer: C

Explanation:



Given : $\angle BPC = 120^\circ$ and BP & CP are angle bisectors

$$\Rightarrow \angle BPC = 90^\circ + \frac{\angle A}{2}$$

$$\Rightarrow \frac{\angle A}{2} = 30^\circ$$

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

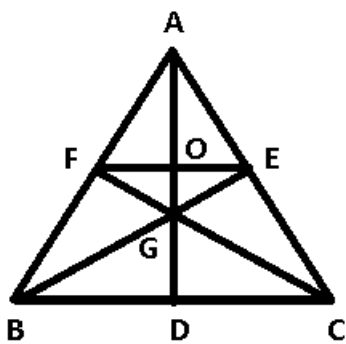
Question 122

BE and CF are two medians of $\triangle ABC$ and G the centroid. FE cuts AG at O. If $OG = 2\text{cm}$, then the length of AO is

- A 2 cm
- B 4 cm
- C 6 cm
- D 8 cm

Answer: C

Explanation:



AD, BE and CF are medians of triangle ABC passing through centroid G.

A centroid divides a median in the ratio 2 : 1

$$\Rightarrow AG : GD = 2 : 1$$

$$\Rightarrow AO = OG = GD$$

$$\Rightarrow OG = \frac{1}{3}AO$$

$$\Rightarrow AO = 3 * OG = 3 * 2 = 6 \text{ cm}$$

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Question 123

Let ABC be an equilateral triangle and AX, BY, CZ be the altitudes. Then the right statement out of the four given responses is

- A $AX = BY = CZ$
- B $AX \neq BY = CZ$
- C $AX = BY \neq CZ$
- D $AX \neq BY \neq CZ$

Answer: A

Explanation:

In an equilateral $\triangle ABC$

$$\angle A = \angle B = \angle C = 60^\circ$$

$$\Rightarrow AB = BC = CA \text{ and hence } AX = BY = CZ$$

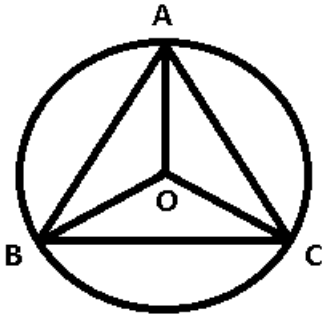
Question 124

O is the circumcentre of $\triangle ABC$, given $\angle BAC = 85^\circ$ and $\angle BCA = 55^\circ$, find $\angle OAC$.

- A 40°
- B 50°
- C 60°
- D 80°

Answer: B

Explanation:



Since $\angle BAC = 85^\circ$

$$\Rightarrow \angle BOC = 2 * 85 = 170^\circ$$

Similarly, $\angle AOB = 2 * \angle BCA = 2 * 55 = 110^\circ$

$$\Rightarrow \angle AOC = 360^\circ - 170^\circ - 110^\circ = 80^\circ$$

Since, OA & OC are radii, $\Rightarrow OA = OC$, $\Rightarrow \angle OAC = \angle OCA$

In $\triangle AOC$

$$\Rightarrow \angle OAC = \angle OCA = \frac{1}{2} (180^\circ - 80^\circ)$$

$$= \frac{100}{2} = 50^\circ$$

Question 125

The angles of a triangle are in the ratio 2 : 3 : 7. The measure of the smallest angle is

- A 30°
- B 60°
- C 45°
- D 90°

Answer: A

Explanation:

Let the angles of triangle be $2y$ $3y$ $7y$

as we know that summation of angles of a triangle is = 180 degree

$$\text{so } 2y+3y+7y = 180$$

$$y = 15$$

so smallest angle = $2 \times 15 = 30$ degree

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Question 126

If $x \sin 60^\circ \cdot \tan 30^\circ = \sec 60^\circ \cdot \cot 45^\circ$, then the value of x is

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

Answer: C

Explanation:

$$\sin 60^\circ = \frac{\sqrt{3}}{2}$$

$$\tan 30^\circ = \frac{1}{\sqrt{3}}$$

$$\sec 60^\circ = 2$$

$$\cot 45^\circ = 1$$

$$x \cdot \frac{\sqrt{3}}{2} \cdot \frac{1}{\sqrt{3}} = (2 \times 1)$$

$$x = 4$$

Question 127

If $\theta = 60^\circ$ then $\frac{1}{2}\sqrt{1 + \sin \theta} + \frac{1}{2}\sqrt{1 - \sin \theta}$ is equal to

- A $\cot \frac{\theta}{2}$
- B $\sec \frac{\theta}{2}$
- C $\sin \frac{\theta}{2}$
- D $\cos \frac{\theta}{2}$

Answer: D

Explanation:

at $\theta = 60^\circ$

$$\sin 60^\circ = \frac{\sqrt{3}}{2}$$

So,

$$\frac{1}{2}\sqrt{1 + \sin 60^\circ} + \frac{1}{2}\sqrt{1 - \sin 60^\circ} =$$

Question 128

Given that $1^2 + 2^2 + 3^2 + \dots + 10^2 = 385$ the value of $2^2 + 4^2 + 6^2 + \dots + 20^2 =$

- A 770
- B 1540
- C 1155

D (385)

Answer: B

Explanation:

Given that $1^2 + 2^2 + 3^2 + \dots + 10^2 = 385$

Now,

$$2^2 + 4^2 + 6^2 + \dots + 20^2 = (1^2 + 2^2 + 3^2 + \dots + 10^2) \times 2^2 = 4 \times 385 = 1540$$

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Question 129

The approx value of $5\frac{1}{3} + 1\frac{2}{9} \times \frac{1}{4}(10 + 1\frac{3}{5})$ is

A 10

B $\frac{67}{25}$

C $\frac{128}{11}$

D $\frac{128}{99}$

Answer: A

Explanation:

$$5\frac{1}{3} + 1\frac{2}{9} \times \frac{1}{4}(10 + 1\frac{3}{5})$$

$$5\frac{1}{3} + 1\frac{2}{9} \times \frac{1}{4}(10 + \frac{15}{4})$$

$$\frac{16}{3} + \frac{11}{9} \times \frac{55}{16} = 9.9 \sim 10$$

Question 130

A and B together can dig a trench in 12 days, which A alone can dig in 28 days; B alone can dig it in

A 20 days

B 21 days

C 22 days

D 23 days

Answer: B

Explanation:

let the amount of work equivalent to dig a trench be 84 units

Given that (A+B) completes the work in 12 days

So (A+B)'s 1 day work = 7 units

It is given that A can complete the whole work in = 28 days

A's 1 day work = 3 units

3 + B's 1 day work = 7

B's 1 day work = 4 units

hence B will take = $\frac{84}{4} = 21$ days to complete the work alone

Question 131

A pipe can fill a cistern in 9 hours. Due to a leak in its bottom, the cistern fills up in 10 hours. If the cistern is full, in how much time will it be emptied by the leak ?

- A 70 hours
- B 80 hours
- C 90 hours
- D 100 hours

Answer: C

Explanation:

let the amount of work equivalent to filling a cistern = 90 units

As it is mentioned that A takes 9 hours to fill the tank then it means :

A's 1 hour work = 10 units

As mentioned that due to hole the whole tank fills up in 10 hours then the amount of work distorted by the hole every hour = 1 unit .

So when a full tank of 90units is filled ,time taken to empty that because of hole = $\frac{90}{1} = 90$ hours

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Question 132

A skilled, a half skilled and an unskilled labourer work for 7, 8 and 10 days respectively and they together get 369 for their work. If the ratio of their each day's work is 1/3 : 1/4 : 1/6, then how much does the trained labourer get (in rupees) ?

- A 164
- B 102.50
- C 201.50
- D 143.50

Answer: D

Explanation:

lcm of 3,4,6 = 12

multiply the work ratio by 12 for easier calculation = 4:3:2

let total work per day be y

so the work done by 3 workers is 4y,3y,2y respectively

total work of skilled = 4y*7 = 28y

total work of half skilled = 3y*8 = 24y

total work of unskilled = 2y*10 = 20y

total combined work = 72y

so skilled will receive = $\frac{28y}{72y} * 369 = 143.5$

Question 133

Two cubes have their volumes in the ratio 27 : 64. The ratio of their surface areas is

- A 9 : 25

B 16 : 25

C 9 : 16

D 4 : 9

Answer: C

Explanation:

let the side of 1st cube and 2nd cube be a unit and b unit respectively

now volume of a cube = $side^3$

total surface area of cube = $6side^2$

given that : $\frac{a^3}{b^3} = \frac{27}{64}$

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

Now we can say that

$$\frac{6a^2}{6b^2} = \frac{9}{16}$$

Question 134

The radius of the base of a Conical tent is 12 m. The tent is 9 m high. Find the cost of canvas required to make the tent, if one square metre of canvas costs 120 (Take $\pi = 3.14$)

A 67,830

B 67,800

C 67,820

D 67,824

Answer: D

Explanation:

Height of tent is 9 m and radius of base is 12 m.

=> Slant height (l) of cone = $\sqrt{h^2 + r^2}$

=> $l = \sqrt{9^2 + 12^2} = \sqrt{225}$

=> $l = 15$ m

Now, curved surface area of tent = πrl

= $3.14 * 12 * 15 = 565.2m^2$

Cost of canvas for $1m^2 =$ Rs. 120

=> Cost of canvas for $565.2m^2 = 120 * 565.2$

= Rs. 67,824

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Question 135

The difference between the radii of the bigger circle and smaller circle is 14 cm and the difference between their areas is 1056 cm . Radius of the smaller circle is

A 7 cm

B 5 cm

C 9 cm

D 3 cm

Answer: B

Explanation:

Let the radius of bigger circle be R and of smaller circle be r

$$\Rightarrow R - r = 14 \text{ -----Eqn(1)}$$

$$\text{Also, } \pi R^2 - \pi r^2 = 1056$$

$$\Rightarrow (R - r)(R + r) = \frac{1056}{\pi}$$

$$\Rightarrow R + r = \frac{1056 * 7}{22 * 14}$$

$$\Rightarrow R + r = 24 \text{ -----Eqn(2)}$$

Subtracting eqn(1) from (2), we get :

$$\Rightarrow 2r = 10$$

$$\Rightarrow r = 5 \text{ cm}$$

Question 136

If the discount is equal to one fifth of the marked price and the loss is half the discount, then the percentage of loss is

A $10\frac{1}{9}\%$

B $11\frac{1}{9}\%$

C $12\frac{1}{9}\%$

D $13\frac{1}{9}\%$

Answer: B

Explanation:

Let Marked price = $100x$

$$\text{Discount} = \frac{1}{5} * 100x = 20x$$

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

$$\text{Loss} = \frac{1}{2} * 20x = 10x$$

$$\Rightarrow \text{C.P.} = 80x + 10x = 90x$$

$$\Rightarrow \text{Loss \%} = \frac{10x}{90x} * 100$$

$$= \frac{100}{9} = 11\frac{1}{9}\%$$

Question 137

Two successive discounts of 10% and 5%, in this order, are given on a bill of Z 110. Find the net amount of money payable to clear the bill. (answer to the nearest rupee)

A 94

B 95

C 96

D 97

Answer: A

Explanation:

After 2 successive discounts of 10% and 5%, the combined discount

$$= -10 - 5 + \frac{-10 * -5}{100} = -15 + 0.5$$

$$= -14.5\%$$

$$\Rightarrow 14.5\% \text{ of } 110 = \frac{14.5}{100} * 110 = 15.95$$

$$\Rightarrow \text{Amount payable} = 110 - 15.95 = 94.05$$

$$= \sim 94$$

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Question 138

The true discount on 1,860 due after a certain time at 5% is 60. Find the time after which it is due.

A 10 months

B 8 months

C 9 months

D 1 year

Answer: B

Explanation:

$$\text{True discount} = \frac{A * r * t}{rt + 100}$$

where, A = Amount, r = rate and t = time

Applying the above formula, we get

$$\text{True discount} = \frac{1860 * 5 * t}{5t + 100} = 60$$

$$\Rightarrow 5t + 100 = 155t$$

$$\Rightarrow t = \frac{2}{3} \text{ years}$$

$$\text{or } t = \frac{2}{3} * 12 = 8 \text{ months}$$

Question 139

If the sum of two angles is 135° and their difference is $\pi/12$, then the circular measure of the greater angle is

A $\frac{2\pi}{3}$

B $\frac{3\pi}{5}$

C $\frac{5\pi}{12}$

D $\frac{\pi}{3}$

Answer: C

Explanation:

$$\pi/12 = 15 \text{ degrees}$$

For ease of calculation, let us convert all the angles into degrees and finally, convert them into radians.

$$x + y = 135$$

$$x - y = 15$$

$$\Rightarrow 2x = 150$$

$$x = 75 \text{ or } 5\pi/12$$

Option C is the right answer.

Question 140

If $\frac{2\tan^2 30^\circ}{1-\tan^2 30^\circ} + \sec^2 45^\circ - \sec^2 0^\circ = x \sec 60^\circ$, then the value of x is

A 2

B 1

C 0

D -1

Answer: B

Explanation:

we know ,

$$\tan 30 = \frac{1}{\sqrt{3}}$$

$$\sec 45 = \sqrt{2}$$

$$\sec 0 = 1$$

$$\sec 60 = 2$$

using the above values in

$$\text{L.H.S} :: \frac{2\tan^2 30^\circ}{1-\tan^2 30^\circ} + \sec^2 45^\circ - \sec^2 0^\circ = \frac{2\left(\frac{1}{\sqrt{3}}\right)^2}{1-\left(\frac{1}{\sqrt{3}}\right)^2} + (\sqrt{2})^2 - 1^2$$

$$= 1 + 2 - 1 = 2$$

it is given that ,

$$2 = x \sec 60 = 2x$$

$$x = 1$$

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Question 141

If $\tan \theta = \frac{\sin \alpha - \cos \alpha}{\sin \alpha + \cos \alpha}$ then $\sin \alpha + \alpha$ is

A $\pm\sqrt{2} \sin \theta$

B $\pm\sqrt{2} \cos \theta$

C $\pm\frac{1}{\sqrt{2}} \sin \theta$

D $\pm\frac{1}{\sqrt{2}} \cos \theta$

Answer: B

Question 142

If $7\sin^2 \theta + 3\cos^2 \theta = 4$, ($0^\circ < \theta < 90^\circ$), then the value of $\tan \theta$ is

A $\frac{1}{\sqrt{3}}$

B $\frac{1}{2}$

C 1

D $\sqrt{3}$

Answer: A

Explanation:

$$7\sin^2\theta + 3\cos^2\theta = 4$$

$$\rightarrow 7\sin^2\theta + 3 - 3\sin^2\theta = 4$$

$$\rightarrow 4\sin^2\theta = 1$$

$$\rightarrow \sin\theta = \pm\frac{1}{2}$$

but $(0^\circ < \theta < 90^\circ)$ so $\theta = 30$

$$\text{then } \tan\theta = \tan 30 = \frac{1}{\sqrt{3}}$$

so the answer is option A.

Question 143

$\tan 9^\circ = \frac{p}{q}$ then the value of $\frac{\sec^2 81^\circ}{1 + \cot^2 81^\circ}$ is

A $\frac{q}{p}$

B 1

C $\frac{p^2}{q^2}$

D $\frac{q^2}{p^2}$

Answer: D

Explanation:

we need to find value of $\frac{\sec^2 81^\circ}{1 + \cot^2 81^\circ}$

$$\text{given that : } \tan 9 = \frac{p}{q}$$

Using : $1 + \tan^2\theta = \sec^2\theta$ and $\cot^2\theta = \tan^2\theta$

$$\frac{\sec^2 81^\circ}{1 + \cot^2 81^\circ}$$

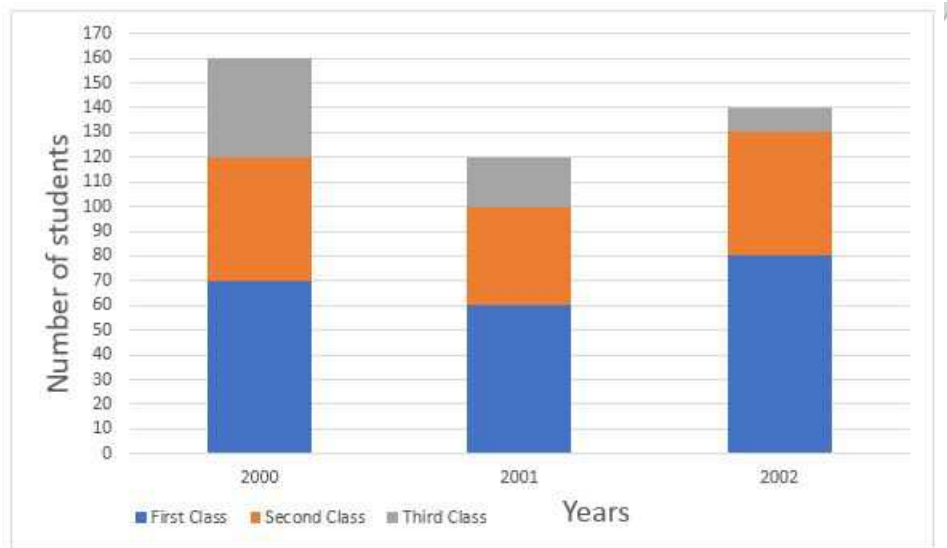
$$= \frac{1 + \tan^2 81}{1 + \tan^2 81} \times \tan^2 81$$

$$= \tan^2 81 = \tan^2(90 - 9) = \cot^2 9 = \frac{q^2}{p^2}$$

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Instructions

The sub divided bar diagram given below depicts the result of Class XII students of a school for three years. Study the diagram and answer the questions given below :



Question 144

The percentage of students passed with Second class in the year 2000 is

- A $33\frac{1}{4}\%$
- B $32\frac{1}{4}\%$
- C $30\frac{1}{4}\%$
- D $31\frac{1}{4}\%$

Answer: D

Explanation:

No. of students passed in 2nd class in 2000 = 50

Total no. of students = 160

$$\begin{aligned} \Rightarrow \text{Required \%} &= \frac{50}{160} * 100 \\ &= \frac{125}{4} = 31\frac{1}{4}\% \end{aligned}$$

Question 145

The percentage of students passed with First class in the year 2001 is

- A 50%
- B 45%
- C 60%
- D 65%

Answer: A

Explanation:

No. of students passed with 1st class in 2001 = 60

Total no. of students in 2001 = 120

$$\begin{aligned} \Rightarrow \text{Required \%} &= \frac{60}{120} * 100 \\ &= 50\% \end{aligned}$$

Question 146

The number of students passed with Third class in the year 2002 is

- A 130
- B 10
- C 140
- D 20

Answer: B

Explanation:

No. of students passed with 3rd class in 2002 = 10

Ans - (B)

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Question 147

The number of students passed with Second class in the year 2002 is

- A 80
- B 130
- C 50
- D 100

Answer: C

Explanation:

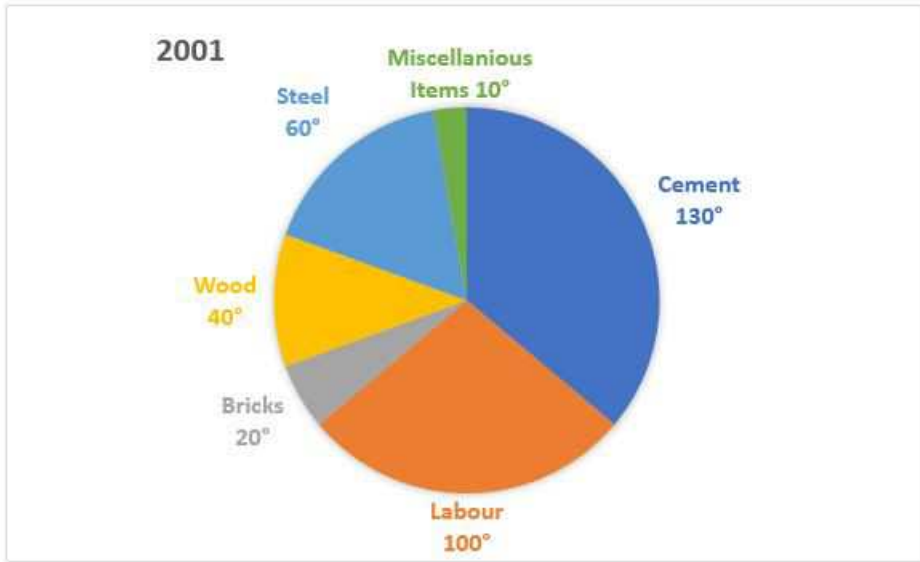
No. of students passed with 2nd class in 2002 = 50

Ans - (C)

Instructions

Pie-charts show the expenses on various heads in construction of a house. Study the pie-chart.





Question 148

What percentage of the total amount is being spent on cement in 1991 ?

- A 18%
- B 30%
- C 48%
- D 60%

Answer: B

Explanation:

Angle subtended by expenses on cement in 1991 = 108°

$$\Rightarrow \% \text{ of total amount spent on cement} = \frac{108}{360} * 100$$

$$= 30\%$$

Question 149

The percentage increase in the amount spent on labour from 1991 to 2001, given that the total amount spent on the construction of the house is 3,60,000 in 1991 and '8,64,000, in 2001 is

- A $3\frac{1}{9}\%$
- B $43\frac{1}{4}\%$
- C $41\frac{2}{3}\%$
- D $2\frac{2}{9}\%$
- E None of the above

Answer: E

Explanation:

Total amount spent in 1991 = 3,60,000

Angle subtended by labour in 1991 = 90°

$$\Rightarrow \text{Amount spent on labour in 1991} = \frac{90}{360} * 3,60,000 = 90,000$$

Total amount spent in 2001 = 8,64,000

Angle subtended by labour in 2001 = 100°

$$\Rightarrow \text{Amount spent on labour in 2001} = \frac{100}{360} * 8,64,000 = 2,40,000$$

$$\begin{aligned} \Rightarrow \% \text{ increase in the amount spent on labour from 1991 to 2001} &= \frac{2,40,000 - 90,000}{90,000} * 100 \\ &= \frac{1,50,000}{90,000} * 100 = 166.7\% \end{aligned}$$

Ans - (E)

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Question 150

If the total cost of constructing the house is 3,60,000 in 1991 and 8,64,000, in 2001, what is the amount spent on Steel in 1991 and 2001 ?

- A 2,16,000 and 4,32,000
- B 60,000 and 84,000
- C 80,000 and 2,10,000
- D 50,000 and 1,44,000

Answer: D

Explanation:

Total amount spent in 1991 = 3,60,000

Angle subtended by steel in 1991 = 50°

$$\begin{aligned} \Rightarrow \text{Amount spent on steel in 1991} &= \frac{50}{360} * 3,60,000 \\ &= 50,000 \end{aligned}$$

Total amount spent in 2001 = 8,64,000

Angle subtended by steel in 2001 = 60°

$$\begin{aligned} \Rightarrow \text{Amount spent on steel in 2001} &= \frac{60}{360} * 8,64,000 \\ &= 1,44,000 \end{aligned}$$

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Reasoning

Instructions

For the following questions answer them individually

Question 151

Natural : Artificial :: Cotton : ?

- A Wool
- B Nylon
- C Silk
- D Jute

Answer: B

Explanation:

Cotton is a natural fiber, in the same way nylon is an artificial fiber.

=> Ans - (B)

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Question 152

Crime : Punishment :: Honesty : ?

- A Award
- B Recognition
- C Reward
- D Pride

Answer: C

Explanation:

A crime will be punished, similarly honesty will get rewarded.

=> Ans - (C)

Question 153

VOHA : WPIB :: CJQX : ?

- A DKRY
- B YRKD
- C RKDY
- D YDKR

Answer: A

Explanation:

Expression = VOHA : WPIB

The pattern followed is :

V	O	H	A
(+1)	(+1)	(+1)	(+1)
W	P	I	B

Similarly, for CJQX :

C	J	Q	X
(+1)	(+1)	(+1)	(+1)
D	K	R	Y

=> Ans - (A)

Question 154

PRINTING : RPNIITGN :: PROTOCOL : ?

- A RPTCOOL
- B RPOTCOLO

C PRT00COL

D RPTOCOLO

Answer: D

Explanation:

Expression = PRINTING : RPNITGN

The pattern followed is that each pair of letters starting from left is swapped, i.e. 1st and 2nd letters are swapped, 3rd and 4th, 5th and 6th and so on.

Eg = PR -> RP, IN -> NI, TI -> IT, NG -> GN

Similarly, for PR OT OC OL -> RP TO CO LO

Thus, PROTOCOL : **RPTOCOLO**

=> Ans - (D)

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Question 155

20 : 11 :: 102 : ?

A 52

B 49

C 61

D 96

Answer: A

Explanation:

Expression = 20 : 11 :: 102 : ?

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

Eg = 20 : $\frac{20}{2} + 1 = 20 : 11$

Similarly, $\frac{102}{2} + 1 = 51 + 1 = 52$

=> Ans - (A)

Question 156

6415 : 5304 :: 7896 : ?

A 6705

B 6905

C 6907

D 6785

Answer: D

Explanation:

Expression = 6415 : 5304 :: 7896 : ?

The pattern followed is that in the first pair, second number is obtained by subtracting 1111 from first number.

Eg : 6415 - 1111 = 5304

Similarly, $7896 - 1111 = 6785$

=> Ans - (D)

Instructions

In each of the following questions, find the odd words/numbers/letters from the given alternatives.

Question 157

- A Anthropology
- B Psychology
- C Taxology
- D Sociology

Answer: C

Explanation:

Except Taxology, the remaining are studies of different subjects. Anthropology is the study of human culture. Psychology is study of human mind, and Sociology is the study of social problems.

=> Ans - (C)

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Question 158

- A Time : Seconds
- B Pressure : Barometer
- C Length : Metre
- D Volume : Litre

Answer: B

Explanation:

Except the second option, in the remaining pairs, the second term is the unit to measure the first term.

=> Ans - (B)

Question 159

- A 56
- B 21
- C 36
- D 35

Answer: C

Explanation:

Except the third option, the remaining are divisible by 7.

=> Ans - (C)

Question 160

- A 3 : 30

B 5 : 128

C 8 : 515

D 9 : 731

Answer: D

Explanation:

The pattern followed in the first three pairs is $n : n^3 + 3$

(A) : $3^3 + 3 = 30$

(B) : $5^3 + 3 = 128$

(C) : $8^3 + 3 = 515$

(D) : $9^3 + 3 = 732$

=> Ans - (D)

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Question 161

A APPLE

B ANGLE

C ADORE

D AMPLE

Answer: C

Explanation:

Except ADORE, the remaining are rhyming words.

=> Ans - (C)

Instructions

For the following questions answer them individually

Question 162

Number of letters skipped in between adjacent letters in the series increases by one. Which of the following series observes the rule above ?

A CPTOV

B HJHQV

C HCFKP

D IKNRW

Answer: D

Explanation:

IKNRW = I J K LM N OPQ R STUV W

The number of letters between each term increases by 1.

Hence Option D is the correct answer.

Question 163

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

- (A) Ghee
- (B) Milk
- (C) Curd
- (D) Cow
- (E) Butter

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

Answer: C

Explanation:

Firstly, cow gives milk. Milk becomes curd. Curd becomes butter . Butter becomes Ghee.
Hence, (D), (B), (C), (E), (A)

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Question 164

Arrange the following words as per order in the dictionary.

- (A) Concession
- (B) Conception
- (C) Conciliator
- (D) Conceive
- (E) Concerned

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

Answer: C

Explanation:

The first 4 letters are same.
Between e & i , e comes first . so (C) comes last
This is present in only one option. i.e
(D), (B), (E), (A), (C)

Question 165

Which one set of letters when sequentially placed at the gaps in the given letter series shall complete it ?

a _ ca _ ca _ caa _

- A caca
- B cacc
- C caac

D ccca

Answer: B

Explanation:

When we sequentially fill "cacc" in the gaps we get

a c ca a ca c caa c

When we split the sequence as three parts, we get acca , acac and caac.

The first term and the last term have the same first and last letters while the middle term has alternate letters thus forming a pattern. Hence Option B is the correct answer.

Instructions

In each of the following questions, choose the correct alternative from the given ones that will complete the series.

Question 166

MNBA, OPDC, QRFE, ?

A STGH

B STKH

C STKJ

D STHG

Answer: D

Explanation:

Each letter of every term is the second letter from the corresponding letter of the previous term.

Hence the required term is STHG.

Option D is the correct answer.

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Question 167

512, 256, 128, ?, 32, 16, 8

A 52

B 61

C 64

D 56

Answer: C

Explanation:

Each term is half of its preceding term.

Hence the complete series will be

512, 256, 128, 64, 32, 16, 8

Hence Option C is the correct answer.

Question 168

30, 130, 630, ?

- A 1260
- B 3130
- C 1030
- D 3103

Answer: B

Explanation:

The series is 030,130,630

The first digit of each term is one more than five times the first digit of the previous term followed by 30.

$$130 = ((10 \times 5 + 1) 30)$$

$$630 = ((1 \times 5 + 1) 30)$$

$$\text{Hence the term after 630} = ((6 \times 5 + 1) 30) = 3130.$$

Hence Option B is the correct answer.

Instructions

For the following questions answer them individually

Question 169

X is four years older than Y who is twice as old as Z. If the total ages of X, Y and Z be 34, how old is X?

- A 8
- B 10
- C 12
- D 16

Answer: D

Explanation:

Let Z's age = m years

=> Y's age = $2m$ years

and X's age = $(2m + 4)$ years

$$\text{Sum of ages of X, Y and Z} = (2m + 4) + 2m + m = 34$$

$$\Rightarrow 5m + 4 = 34$$

$$\Rightarrow 5m = 34 - 4 = 30$$

$$\Rightarrow m = \frac{30}{5} = 6$$

$$\therefore \text{X's age} = 2(6) + 4 = 16 \text{ years}$$

=> Ans - (D)

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Question 170

Pointing to Vinod, Radha said, "His sister is my mother's only daughter". How is Radha related to Vinod ?

- A Cousin
- B Daughter
- C Mother

D Sister

Answer: D

Explanation:

Radha's mother's only daughter is Radha herself.

Now, according to ques, that girl, i.e. Radha is Vinod's sister.

=> Ans - (D)

Question 171

Madhavi and Shalini are good in Dramatics and Computer Science. Anjana and Madhavi are good in Computer Science and Physics. Anjana, Purnima and Nirmala are good in Physics and History. Nirmala and Anjana are good in Physics and Maths. Purnima and Shalini are good in History and Dramatics. Who is good in Physics, History and Dramatics ?

A Nirmala

B Purnima

C Anjana

D Shalini

Answer: B

Explanation:

Madhavi is good in Dramatics , Computer Science ,Physics.

Purnima is good in Physics , History , Dramatics.

Hence , Purnima is the answer.

Question 172

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

A DIALECT

B LIMITED

C DIAMETER

D DICTATE

Answer: B

Explanation:

From the given alternative words, the only word which can be formed using the letters of the given word IMMEDIATELY is 'LIMITED', none of the others can be completely formed using the letters of IMMEDIATELY. option B.

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Question 173

From the given alternative words. select the word which cannot be formed using the letters of given word. TAMBOURINE

A BROMINATE

B OBTAINER

C BOATMAN

D MINARET

Answer: C

Explanation:

From the given alternative words, the word which cannot be formed using the letters of given word TAMBOURINE is BOATMAN because of the missing 'A' in TAMBOURINE, therefore the correct answer is option C.

Question 174

If alphabets are serially numbered, one of the answers given below has a meaningful word hidden in it. Identify the answer.

- A 5, 18, 5, 8, 1, 3, 5
- B 20, 5, 1, 3, 8, 5, 18
- C 5, 1, 3, 5, 20, 8, 18
- D 18, 5, 3, 8, 1, 5, 20

Answer: B

Explanation:

Option B :

20 = T, 5 = E, 1 = A, 3 = C, 8 = H, 5 = E, 18 = R

Question 175

If JOSEPH is coded as FKOALD, then how GEORGE will be coded in that code language?

- A CADMNO
- B CAKNIT
- C CAKNCA
- D JAKINS

Answer: C

Explanation:

Given : JOSEPH is coded as FKOALD

The pattern followed is :

J	O	S	E	P	H
(-4)	(-4)	(-4)	(-4)	(-4)	(-4)
F	K	O	A	L	D

Similarly, for GEORGE :

G	E	O	R	G	E
(-4)	(-4)	(-4)	(-4)	(-4)	(-4)
C	A	K	N	C	A

=> Ans - (C)

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Question 176

If BUILDING is coded as 4152 759 6 and RIVER as 85308, what will be the code for BRIDGE ?

- A 485067
- B 485670

C 458760

D 485760

Answer: D

Explanation:

If BUILDING is coded as 4152 759 6 and RIVER as 85308, then it can be inferred that:

B=4

R=8

I=5

D=7

G=6

E=0. therefore BRIDGE=485760. option D.

Question 177

Following words are written in a code language. Study them carefully and find out the word to the given code.

CAR- Φαδ

SIT-ηψκ

WELL-σιγγ

MAP - μαβ

Given code : Φαγμ

A CALL

B CALM

C CART

D CARE

Answer: B

Explanation:

From the given code, it can be inferred that :

C=Φ

A=α

L=y

M=μ.

therefore the correct answer is option B.

Question 178

An aeroplane covers a distance at a 340 kmph in 8 hours. To cover the same distance in $2\frac{2}{3}$ hours, it must travel at what speed ?

A 660 km/hr

B 700 km/hr

C 680 km/hr

D 1020 km/hr

Answer: D

Explanation:

Distance = $(340 \times 8) = 2720$ km.

Speed = Distance/Time

Speed = $2720 / (8/3)$ km/hr. [We can write $2\frac{2}{3}$ hours as $8/3$ hours]

Required speed = 1020 km/hr

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Question 179

If '+' means '÷'; '-' means '+'; 'x' means '-' and '÷' means 'x', then, $8 \div 4 - 6 + 3 \times 4 = ?$

- A 4
- B 14
- C 28
- D 30

Answer: D

Explanation:

It is given that '+' means '÷'; '-' means '+'; 'x' means '-' and '÷' means 'x'

So, $8 \div 4 - 6 + 3 \times 4 = 8 \times 4 + 6 \div 3 - 4$

Using BODMAS, $8 \times 4 + 6 \div 3 - 4 = 32 + 2 - 4 = 30$

Question 180

Some equations are solved on the basis of a certain system. Find the correct answer for the unsolved equation on that basis.

$$58 \times 12 = 4, 37 \times 96 = 5,$$

$$11 \times 20 = 2, 42 \times 12 = ?$$

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

Answer: B

Explanation:

The number on the right is obtained by taking the square root of sum of all the digits on the left.

$$\text{Eg : } 58 \times 12 = \sqrt{5 + 8 + 1 + 2} = \sqrt{16} = 4$$

$$\text{and } 37 \times 96 = \sqrt{3 + 7 + 9 + 6} = \sqrt{25} = 5$$

$$\text{and } 11 \times 20 = \sqrt{1 + 1 + 2 + 0} = \sqrt{4} = 2$$

$$\text{Similarly, } 42 \times 12 = \sqrt{4 + 2 + 1 + 2} = \sqrt{9} = 3$$

=> Ans - (B)

Question 181

Select the correct combination of mathematical signs to replace * signs and to balance the given equation $33 * 11 * 3 * 6 = 115$

- A + - x
- B x ÷ -
- C ÷ x -

D $- \times \div$

Answer: B

Explanation:

In this question we need to check each option :

the given equation is : $33 \times 11 \div 3 \times 6 = 115$

option A : $+ - \times$

$$33 + 11 - 3 \times 6 = 26$$

Option B : $\times \div -$

$$33 \times 11 \div 3 - 6 = 121 - 6 = 115$$

As we checked that option B is satisfying the equation hence we can say that option B is the correct option

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Instructions

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

Question 182

72	44	68
91	?	86
43	66	37

A 33

B 22

C 11

D 55

Answer: D

Explanation:

The values in column 2 have the same digits.

Value in Column 1 - Units/Tens digit of value in Column 2 = Value in column 3.

Let the unknown number be xx

$$91 - x = 86$$

$$x = 5$$

$$xx = 55$$

The missing number is 55.

Option D is the correct answer.

Question 183

8	2	9
3	9	6
6	4	9
30	22	?

- A 63
- B 24
- C 52
- D 12

Answer: A

Explanation:

(Value in row 1 × value in row 2) + Value in Row 3 = Value in Row 4

Let the unknown be x .

$$(9 \times 6) + 9 = x$$

Hence $x = 63$

Hence Option A is the correct answer

Question 184

8	3	12
2	3	6
4	3	3
4	3	?

- A 5
- B 6
- C 7
- D 15

Answer: B

Explanation:

The pattern followed is that the fourth number in each column is the cube root of the product of the first three numbers.

$$\text{Eg : } \sqrt[3]{8 \times 2 \times 4} = \sqrt[3]{64} = 4$$

$$\text{and } \sqrt[3]{3 \times 3 \times 3} = \sqrt[3]{27} = 3$$

$$\text{Similarly, } \sqrt[3]{12 \times 6 \times 3} = \sqrt[3]{216} = 6$$

=> Ans - (B)

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Instructions

For the following questions answer them individually

Question 185

Govind starts from his house towards West. After walking a distance of 25 metres he turned towards right and walked 10 metres. He then turned left and moving a distance of 10 metres, turned to his left again and walked 40 metres. He now turns to the left and walks 5 metres. Finally he turns to his left. In which direction is he walking now ?

- A North
- B South

C East

D West

Answer: A

Explanation:

the sequence of directions that can be inferred is west-north-west-south-east-north.

therefore the answer is option A.

Question 186

'A' walks 10 metres in front and 10 metres to the right. And after walking straight takes a right turn and walks 5 metres. How far is he now from his starting point?

A $5\sqrt{5}$ meter

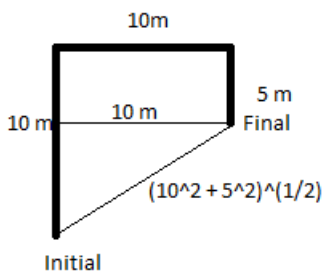
B $10\sqrt{5}$ meter

C 5 meter

D $5\sqrt{10}$ meter

Answer: A

Explanation:



Using Pythagoras : Shortest Distance = $\sqrt{(5^2 + 10^2)} = 5\sqrt{5}$

Instructions

In each of the following questions, one/two statements are given followed by two conclusions/assumptions, I and II. You have to consider the statements to be true, even if they seem to be at variance from commonly known facts. You are to decide which of the given conclusions/assumptions can definitely be drawn from the given statements. Indicate your answer.

Question 187

Statements

All cows are animals.

All deers are cows.

Conclusions

I. All deers are animals.

II. All animals are cows.

A Only conclusion I follows.

B Only conclusion II follows.

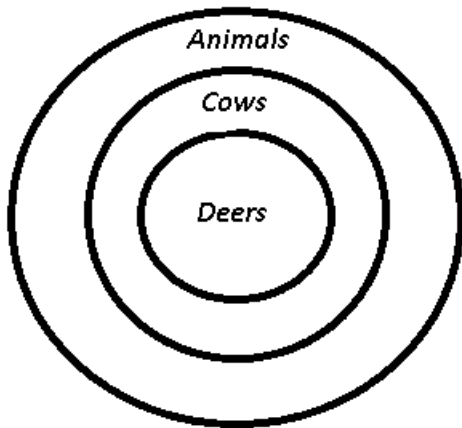
C Both conclusions I and II follow.

D Neither conclusion I nor II follows.

Answer: A

Explanation:

The venn diagram for above statements is :



Conclusions

- I. All deers are animals = true
- II. All animals are cows = false

Thus, only conclusion I follows.

=> Ans - (A)

General Science Notes for SSC CGL

Question 188

Statement :

Regular reading of newspapers enhances one's general knowledge.

Assumptions

- I. Newspaper contains a lot of general knowledge.
- II. Enhancement of general knowledge enables success in life.

- A Only I is implicit
- B Only II is implicit
- C Both I and II are implicit
- D Neither I nor II is implicit

Answer: A

Explanation:

According to the author, to enhance general knowledge one has to go through the news paper. The author assumes that, news paper contains general knowledge. So I is implicit.

The author's assumption regarding success in life is not given in the statement. So II is not implicit.

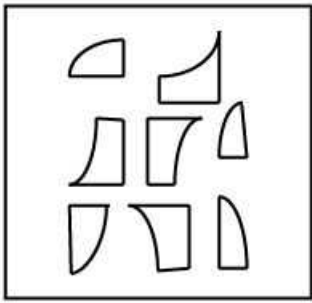
=> Ans - (A)

Instructions

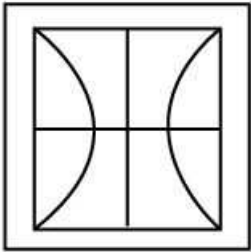
For the following questions answer them individually

Question 189

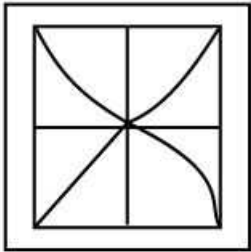
Among the four answer figures, which one can be formed from the cut out pieces given below in the question figure ?



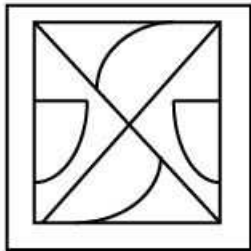
A



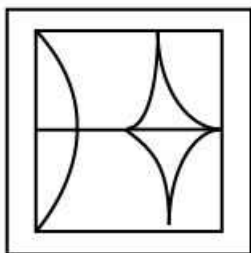
B



C



D



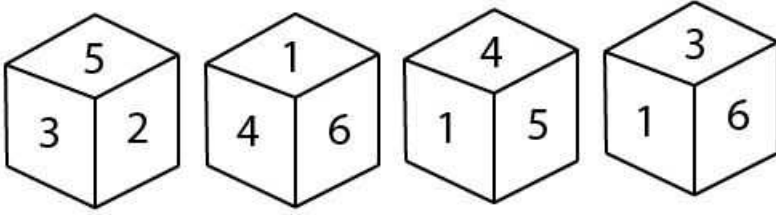
Answer: A

Explanation:

The given image has 4 quarter circles and 4 parts with common base. Hence , Option A can be formed.

Question 190

Four positions of a dice are given below. Identify the number at the bottom when top is 1.



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

Answer: C

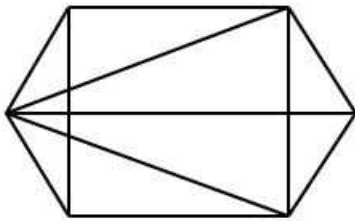
Explanation:

From the first, 3rd & 4th images, clearly 3, 6, 2 are adjacent. Hence, when 1 is on the top, 2 must be on the bottom.

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Question 191

Find the number of triangles in the given figure :



- A 11
- B 14
- C 16
- D 22 or more

Answer: D

Explanation:

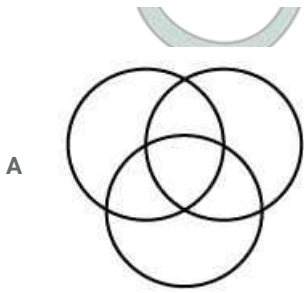
Here, the triangles can be formed with 19 different bases. Hence, 22 or more triangles are possible.

Instructions

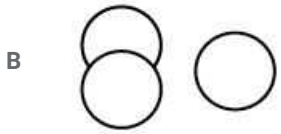
In each of the following questions, identify the diagram that best represents the relationship among classes given below.

Question 192

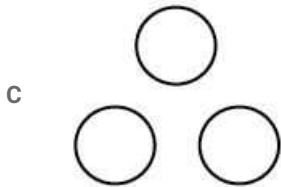
Physician, Physical Education Instructor and Physicist



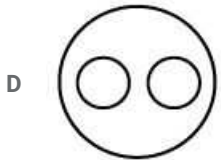
A



B



C



D

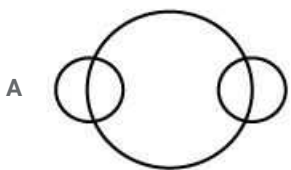
Answer: C

Explanation:

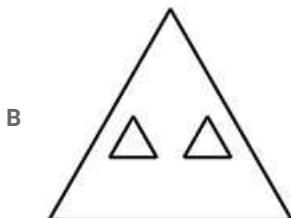
Physician, Physical Education Instructor and Physicist are completely different from each other . Hence, there shouldn't be anything common.

Question 193

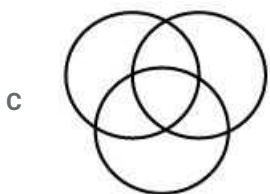
Profit, Dividend, Bonus.



A

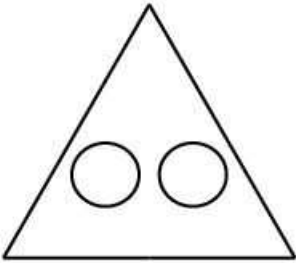


B



C

D



Answer: B

Explanation:

Bonus and Dividend are different from each other. But both these are parts of profit. Hence, all of them must have same shape.

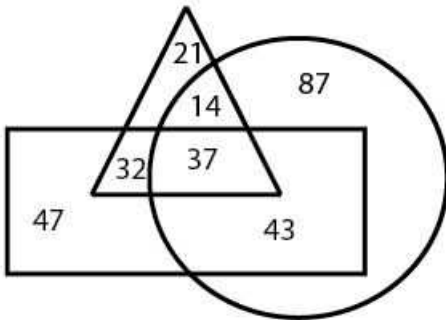
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Instructions

For the following questions answer them individually

Question 194

In the given figure, the triangle represents Graduates, rectangle represents Married Persons and circle represents Women. What is the number of those Women who are Graduates but not Married ?



A 21

B 14

C 32

D 37

Answer: B

Explanation:

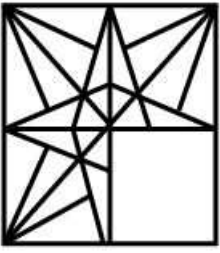
In the given figure, the triangle represents Graduates, rectangle represents Married Persons and circle represents Women. The number of those Women who are Graduates but not Married is represented by that part which is overlapped by triangle and circle but not rectangle.

Hence, 14 is the answer

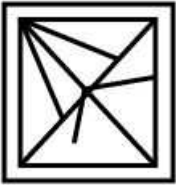
Instructions

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

Question 195



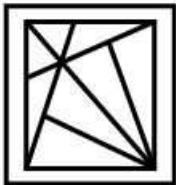
A



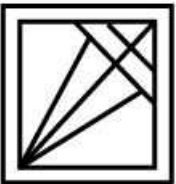
B



C



D

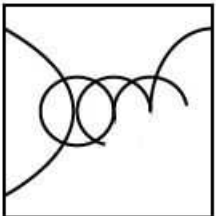


Answer: C

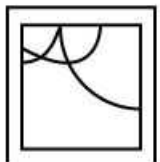
Explanation:

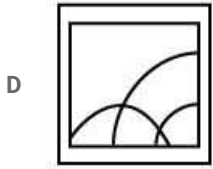
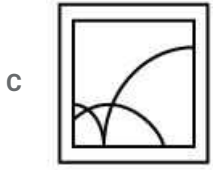
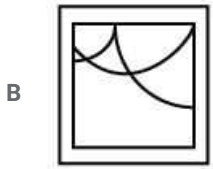
Clearly, we need an image with the star pointing towards lower right hand corner.
Hence, Option C

Question 196



A





Answer: A

Explanation:

To complete the figure, we need parts of 2 smaller circles and 1 larger circle.
Hence, Option A

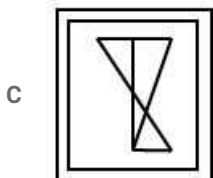
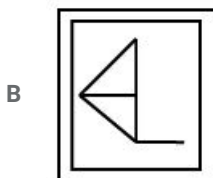
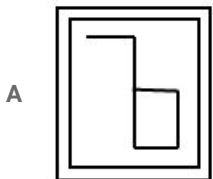
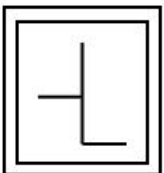
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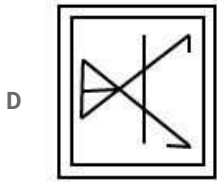
Instructions

For the following questions answer them individually

Question 197

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





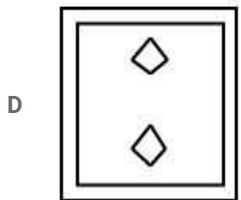
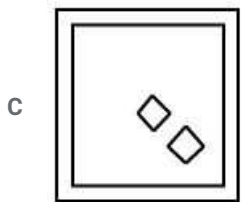
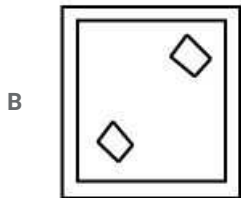
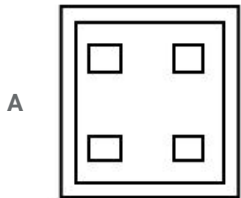
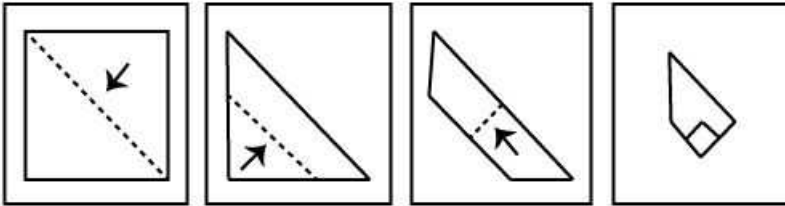
Answer: B

Explanation:

Clearly, the image in the question closely matches to Option B .

Question 198

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



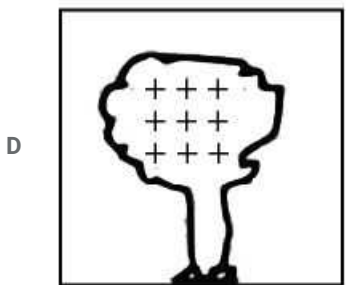
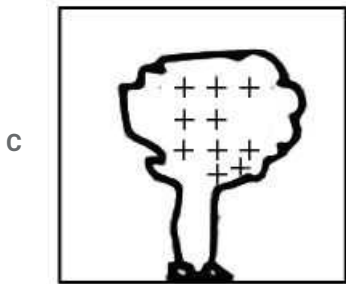
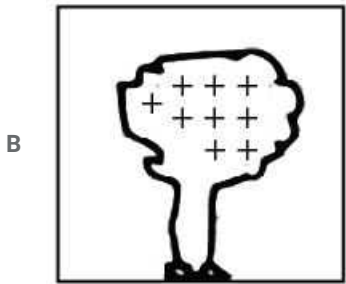
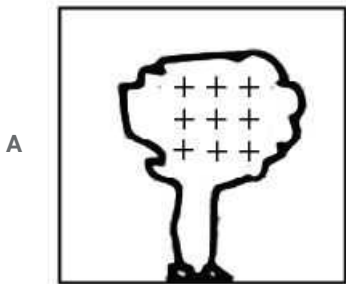
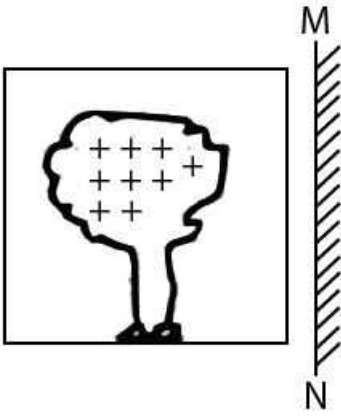
Answer: B

Explanation:

Clearly, from last two steps , we will get a diamond shape.
And from first two steps it is clear that they will at diagonal ends.
Hence, Option B .

Question 199

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



Answer: B

Explanation:

To get the mirror image, flip the image along the vertical axis. Clearly the image has 1 + followed by 2 + followed by 3 +s each. Hence, Option B is the answer,

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Question 200

A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as in two matrices given below. The columns and rows of Matrix I are numbered from 0 to 4 and that of Matrix II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, e.g. 7 can be represented by 31, 76 etc., and 'N' can be represented by 12, 7 etc., Similarly, you have to identify the set for the word given below. LOVE

MATRIX I

	0	1	2	3	4
0	G	V	E	A	C
1	R	O	N	G	L
2	M	N	E	L	I
3	O	T	I	T	A
4	N	L	N	E	P

MATRIX II

	5	6	7	8	9
5	R	E	O	N	G
6	N	P	V	E	L
7	M	T	I	O	N
8	E	A	I	C	O
9	N	T	A	R	L

- A 23, 12, 67, 68
- B 69, 78, 76, 86
- C 99, 98, 67, 68
- D 14, 30, 67, 68

Answer: D

Explanation:

L can be 41 or 23 or 14

O can be 11 or 30 or 57 or 78 or 89

V can be 01 or 67

E can be 02 or 22 or 43 or 56 or 68 or 85

Hence, Option D is the answer

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