



SSC CGL 2014 Tier 1 20 July Second Sitting

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General Awareness

Instructions

For the following questions answer them individually

Question 1

Franchising is

- A not having to pay any fee
- B a form of licensing
- C operating a business without a licence
- D operating with less control

Answer: B

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Question 2

The maximum strength of Rajya Sabha is

- A 220
- B 200
- C 250
- D 240

Answer: C

Question 3

If the President of India wants to resign, he has to address the letter of resignation to the

- A Chief Justice of India
- B Prime Minister
- C Vice-President
- D Speaker

Answer: C

Question 4

The playing time (in seconds) of the full version of Indian National Anthem is

- A 60
- B 52
- C 55
- D 57

Answer: B

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Question 5

The tomb of Jahangir was built at

- A Gujarat
- B Delhi
- C Lahore
- D Agra

Answer: C

Question 6

What was the original name of Nur Jahan ?

- A Zeb-un-Nissa
- B Fatima Begum
- C Mehr-un-Nissa
- D Jahanara

Answer: C

Question 7

The study of factor pricing is alternatively called the theory of

- A functional distribution
- B personal distribution
- C income distribution
- D wealth distribution

Answer: A

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Question 8

SEBI was set up in

- A 1992
- B 1980
- C 1984
- D 1988

Answer: D

Question 9

In a free enterprise economy, resource allocation is determined by

- A the pattern of consumers' spending
- B the wealth of the entrepreneurs
- C decision of the Government
- D the traditional employment of factors

Answer: A

Question 10

Rashtriya Krishi Bima Yojana was introduced In

- A 1992
- B 1998
- C 1999
- D 1996

Answer: C

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Question 11

Buyers and Sellers will have perfect knowledge of market conditions under

- A Duopoly
- B Perfect competition
- C Monopolistic competition
- D Oligopoly

Answer: A

Question 12

Who acts as the channel of communication between the President and the Council Ministers

- A Chairman, Rajya Sabha
- B Speaker of Lok Sabha
- C Vice-President
- D Prime Minister

Answer: D

Question 13

Largest producer of Bauxite in the world is

- A U.S.A.
- B Jamaica
- C Chile
- D Australia

Answer: D

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Question 14

The two richest Eco-zones of India are

- A The Himalayas and VindhYas
- B The Himalayas and Eastern Ghats
- C The Himalayas and Western Ghats
- D The Himalayas and Aravallis

Answer: C

Question 15

At the time of independence, predominantly India practised

- A Subsistence agriculture
- B Mixed farming
- C Plantation agriculture
- D Shifting agriculture

Answer: A

Question 16

Species which has restricted distribution is called

- A Eco species
- B Endemic
- C Sympatric
- D Allopatric

Answer: B

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Question 17

2, 4-D is used as

- A Weedidde
- B Vitamin
- C Fertilizer
- D Insecticide

Answer: A

Question 18

Widal test is used for the diagnosis of

- A Salmonellosis
- B Malaria
- C Cholera
- D Typhoid

Answer: D

Question 19

Which Charter Act brought to an end, the East India Company's monopoly in India's foreign trade ?

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

Answer: C

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Question 20

The Declaration of the Rights of Man is related with

- A The Russian Revolution
- B The French Revolution
- C The American War of Independence
- D The Glorious Revolution of England

Answer: B

Question 21

The policy of 'imperial preferences' adopted by Britain in its colonies in 1932 is also known as the

- A Hong Kong Agreement
- B London Agreement

C Ottawa Agreement

D Paris Agreement

Answer: C

Question 22

The planet which has the highest surface temperature is

A Jupiter

B Earth

C Pluto

D Venus

Answer: D

General Science Notes for SSC CGL

Question 23

Atmospheric temperature increasing at the higher altitudes is called

A Radiation

B Inversion

C Conduction

D Convection

Answer: B

Question 24

In a conductor

A there is no conduction band

B the forbidden energy gap is :very wide

C the forbidden energy gap is very narrow

D the valence band and the conduction band overlap each other

Answer: D

Question 25

Which one of the following converts assembly language into machine language ?

A Algorithm

B Interpreter

C Compiler

D Assembler

Answer: D

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Question 26

How many bytes are equal to one kilobyte ?

- A 1050
- B 1000
- C 976
- D 1024

Answer: D

Question 27

Which one of the following elements exhibits the greatest tendency to lose electrons ?

- A Fluorine
- B Lithium
- C Oxygen
- D Zinc

Answer: B

Question 28

Poison used for killing rats is

- A Calcium phosphide (Ca P)
- B Zinc phosphide (Zn P)
- C Magnesium nitride (Mg N)
- D Magnesium phosphide (Mg P)

Answer: B

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Question 29

Antacid tablets consist of

- A Hydroxides of sodium, magnesium and aluminium
- B Hydroxides of magnesium and aluminium
- C Hydroxides of sodium and aluminium
- D Hydroxides of magnesium and sodium

Answer: B

Question 30

The element absorbed both in cation and anion form is

- A Sulphur
- B Nitrogen
- C Calcium
- D Phosphorus

Answer: B

Question 31

What accumulates in the muscles after continuous strenuous physical exercise as a result of temporary anaerobic respiration that causes muscular fatigue ?

- A ATP
- B Lactic acid
- C Ethyl alcohol
- D Carbon dioxide

Answer: B

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Question 32

Thalassemia is an example of

- A Deletion mutation
- B Point mutation
- C Silent mutation
- D Frame shift mutation

Answer: D

Question 33

Eutrophication of a water body enhances

- A Organic matter production
- B Biological oxygen demand
- C Both a: and b:
- D Neither ,a: nor b:

Answer: C

Question 34

The moment of inertia of a body does not depend upon its

- A axis of rotation
- B angular velocity
- C form of mass
- D distribution of mass

Answer: B

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Question 35

To open a door easily, the handle should be fixed

- A near the hinges
- B away from mid-point opposite to hinges
- C in the middle
- D None of these

Answer: D

Question 36

Nucleons are regarded as composite sub-particles known as

- A Mesons
- B Quarks
- C Leptons
- D Photons

Answer: B

Question 37

The name of the common currency launched by members of the European Union is

- A Sterling
- B Dollar
- C Euro
- D Pound

Answer: C

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Question 38

National Science Day in India is celebrated on

- A 30th April
- B 1st February
- C 28th February
- D 23th March

Answer: C

Question 39

Red Data Book contains

- A Red pandas
- B Rare plants and animals under threat
- C Rare minerals
- D Vanishing rivers

Answer: B

Question 40

Which of the following is India's highest honour in the field of literature ?

- A Saraswati Samman
- B Vyas Samman
- C Kalidas Samman
- D Jnanpith Award

Answer: D

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Question 41

Which scientist discovered the radioactive element Radium ?

- A Marie Curie
- B Isaac Newton
- C Albert Einstein
- D Benjamin Franklin

Answer: A

Question 42

Golden Globe Awards are associated with

- A Social work
- B Journalism
- C Peace initiative
- D Films

Answer: D

Question 43

The name of the great maestro of Indian Music "Ustad Bismillah Khan" is related to

- A Shehnai
- B Tabla
- C Sarod
- D Flute

Answer: A

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Question 44

Which of the following is not a greenhouse gas ?

- A Water vapour
- B O₂
- C NH₄Cl
- D CO₂

Answer: B

Question 45

Interveinal necrotic spots on leaves appear due to

- A HF injury
- B SO₂ injury
- C NO₂ injury
- D O₃ injury

Answer: B

Question 46

Nuclear fallout contains

- A Alpha particles

- B α -particles
- C Both a: and b:
- D Neither a: nor b:

Answer: C

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Question 47

Which of the following water bodies is not a freshwater resource ?

- A Jaisamand
- B Ganga river
- C Yamuna river
- D Chilika lake

Answer: C

Question 48

Who among the following is the Home-Minister in the Union Cabinet of India ?

- A Sushma Swaraj
- B Narendra Modi
- C Rajnath Singh
- D Arun Jaitley

Answer: C

Question 49

Who was the 14th Prime Minister of India ?

- A Manmohan Singh
- B Narendra Modi
- C Atal Bihari Vajpayee
- D None of these

Answer: A

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Question 50

Which is the world's cultural capital in India ?

- A Kolkata
- B Trivandrum

C Madurai

D Mumbai

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, your answer is d: i.e. No error.

Question 51

In his book (a)/ Churchill describes (b)/ that historical first meeting with Roosevelt. (c)/ No error (d)

A In his book

B Churchill describes

C that historical first meeting with Roosevelt

D No error

Answer: C

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Question 52

The ant who was nearby (a)/ walked forward and bit the hunter (b)/ sharply in the ankle. (c)/ No error (d)

A The ant who was nearby

B walked forward and bit the hunter

C sharply in the ankle

D No error

Answer: A

Question 53

They can promise you (a)/ an experience (b) / you won't never forget. (c)/ No error (d)

A They can promise you

B an experience

C you won't never forget

D No error

Answer: C

Question 54

The dress that the (a) / girl wore was (b)/ more attractive than the other girls.
(c)/ No error (d)

- A The dress that the
- B girl wore was
- C more attractive than the other girls
- D No error

Answer: C

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Question 55

Fifty years has passed (a)/ since man first ventured (b)/ into outer space. (c)/ No error (d)

- A Fifty years has passed
- B since man first ventured
- C into outer space
- D No error

Answer: A

Instructions

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

Question 56

I can..... him without qualifications.

- A recommend
- B commend
- C praise
- D suggest

Answer: A

Question 57

She let her horse..... in the field.

- A loosen
- B loose
- C loosely

D lose

Answer: B

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Question 58

It is hoped that a..... will be reached in the meeting.

A statement

B comparison

C compromise

D compression

Answer: C

Question 59

We are fortunate to have extremelyand visionary leaders,

A competitive

B complex

C complaisant

D competent

Answer: D

Question 60

Some people regard the world as an.....

A imitation

B allusion

C illusion

D elision

Answer: C

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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

Scintillating

A moving

B interesting

- C burning
- D glittering

Answer: D

Question 62

Transient

- A fleeting
- B transparent
- C feeble
- D fanciful

Answer: A

Question 63

Voracious

- A hungry
- B hasty
- C thirsty
- D greedy

Answer: D

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Instructions

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

Question 64

Virtue

- A fault
- B vice
- C anger
- D ill-temper

Answer: B

Question 65

Flexible

- A blunt
- B rigid
- C gentle

D rough

Answer: B

Question 66

Obscure

A clear

B gloomy

C unpleasant

D dark

Answer: A

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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 present manner of delimitation has been done in a gerrymandering way.

A in a legal and constitutional manner

B in a judicial and fair way

C in a manipulative and unfair way

D in a dictative manner like the Germans

Answer: C

Question 68

The performance of the lead actors in the play brought the house down.

A made the audience applaud enthusiastically

B made the audience leave

C made the audience cry

D made the audience request an encore

Answer: A

Question 69

People like her, who are salt of the earth, are very difficult to find.

A dedicated to better the world

B good, honest and ideal

C extraordinary

D one with the common folk

Answer: B

General Science Notes for SSC CGL

Question 70

The Alpha and Omega

- A beginning and end
- B a Shakespearean play
- C a Greek song
- D a Swiss watch

Answer: A

Question 71

Jane earned pin money working part-time as a waitress.

- A saved money
- B additional money
- C a small amount of money
- D money to be spent only for luxuries and treats

Answer: C

Instructions

In the following questions, a sentence/ part of the sentence is printed in bold. Below are given alternatives to the 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 72

Loose tea leaves are kept in a tea box.

- A tin
- B cosy
- C caddy
- D No improvement

Answer: C

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Question 73

Shakespeare is greater than any other poet.

- A greater than many poets
- B greater as ,any other poet

C greater than all poets

D No improvement

Answer: D

Question 74

I saw the woman whom you said lived next door.

A that you said live next door

B who you said lived next door

C which you said lived next door

D No improvement

Answer: D

Question 75

A thousand rupees are all that he wants.

A are

B was

C is

D No improvement

Answer: C

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Question 76

I have never been hearing from him since he left for America.

A have never heard

B have never been hearing

C was never heard

D No improvement

Answer: A

Question 77

The camera I bought recently is not convenient.

A easy to use

B hard to use

C difficult to use

D No improvement

Answer: A

Question 78

You are a mechanic, aren't you?

- A wasn't
- B isn't
- C are
- D No improvement

Answer: D

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Question 79

Sincere workers do not rest till they have reached perfection in their work.

- A they had achieved
- B they have achieved
- C they having reached
- D No improvement

Answer: B

Question 80

The interesting tale had its beginning more than fifty years ago.

- A began
- B was started
- C initiated
- D No improvement

Answer: A

Question 81

One of her friends had just got down from the bus.

- A alighted from
- B arrived in
- C landed from
- D No improvement

Answer: A

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Instructions

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

Question 82

A person who works for an employer for a fixed period of time in order to learn the particular skills needed in their job

- A labourer
- B worker
- C employee
- D apprentice

Answer: D

Question 83

A word or practice that has gone out of use

- A obsolete
- B absolute
- C outdated
- D old-fashioned

Answer: A

Question 84

Favouritism granted in politics or business to relatives

- A monotheism
- B nepotism
- C hedonism
- D redtapism

Answer: B

Question 85

A person who collects coins

- A ornithologist
- B numismatist
- C philatelist

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D coin collector

Answer: B

Question 86

A supplement to a will

A furlough

B adjunct

C effusion

D codicil

Answer: D

Question 87

Estimation of a thing's worth

A pay

B goodness

C appraisal

D beliefs

Answer: C

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Question 88

To free completely from blame

A let go

B clear

C exonerate

D release

Answer: C

Instructions

In the following questions, four words are given in each question, out of which only one word is correctly spelt. Find the correctly spelt word.

Question 89

A silhouete

B silhouette

C silohoutte

D silhoutte

Answer: B

Question 90

- A kleptomaniac
- B cleptorfianiac
- C kleptomaniac
- D cleptomeniac

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.

India is chiefly an agricultural land. The cultivation of crops depends on a proper supply of water through out the year. Since olden times, large parts of our country have suffered from occasional periods of too much rain and those of drought. People have known that if surplus flood water could be stored away for use during the dry season, these problems will be solved. Unfortunately, they had neither the knowledge nor the means to do much in this direction. Whatever little they knew, they tried to put into practice. They dug canals to drain water from perennial rivers. This was heavy and expensive work and practicable over only a small area. Large tanks were excavated and small dams built to hold back floods. But it was not possible to do anything on a countrywide scale.

Question 91

The term 'perennial' means

- A rivers flowing into canals
- B flowing once a year
- C flowing throughout the year
- D flowing during the monsoon

Answer: C

Question 92

How has our country suffered since olden times ?

- A It has suffered due to the zamind ari
- B It has suffered from heavy rains or severe droughts
- C It has suffered under the British Rule
- D It has suffered due to the caste system

Answer: B

Question 93

Why were the people unable to solve the problem ?

- A Absence of will power

- B They were indifferent to the problem
- C They lacked knowledge and the means to solve the Problem
- D Inadequate finance

Answer: C

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Question 94

'Excavated' means

- A to fill
- B to make caves
- C to dig
- D to flood

Answer: C

Question 95

India's economy is chiefly

- A socialistic
- B industrial
- C mixed
- D agricultural

Answer: D

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.

Stop reading this passage for a few seconds and look around the room you're in. Without any perceived effort at all on your part, your brain will register everything within the scope of your vision. But where does all that information known as sensory memory. So what if you want to hold on to these fleeting memories for longer? The answer is obvious you need to pay conscious attention to the sensory input we are receiving. By focusing on it, you can take the information to the next memory level, and turn it into working remember the words you've just read so that what follows makes overall sense. True to its name, short-term memory lasts for only a few seconds to a few minutes, but it plays a vital role in our daily lives, allowing us to write down doctor's appointment, make everyday decisions or have a conversation (think about it you have to recall what someone said to you five seconds ago in order to respond). Of course, there is some information you need to keep for days, months or even years. What you need here is long-term memory. With this, the potential is there to remember something forever.

Question 96

The information stored in your sensory memory generally

- A stays with you forever
- B stays with you for a short while
- C disappears completely

D lingers in your brain

Answer: C

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Question 97

To convert a sensory memory into a short-term memory we must

- A ignore a sensory input completely
- B focus on the information
- C concentrate on what we are looking at
- D be consciously attentive to sensory input

Answer: D

Question 98

Short-term memory allows us to

- A remember events for many years
- B remember an event during childhood
- C remember simple things like appointments
- D remember plenty of dates and numbers

Answer: C

Question 99

Long-term memory helps us

- A forget unimportant things
- B remember a thing for a long time
- C forget things for a long time
- D erase short-term memory

Answer: B

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Question 100

The information that your brain stores within a fleeting moment is called

- A memory level
- B sensory memory
- C short-term memory
- D long-term memory

Answer: B

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Quant

Instructions

For the following questions answer them individually

Question 101

The radius of the base and the height of a right circular cone are doubled. The volume of the cone will be

- A 8 times of the previous volume
- B three times of the previous volume
- C $3\sqrt{2}$ times of the previous volume
- D 6 times of the previous volume

Answer: A

Explanation:

Let original radius be r and height be h

$$\Rightarrow \text{Original volume of cone} = \frac{1}{3}\pi r^2 h$$

New radius = $2r$ and new height = $2h$

$$\Rightarrow \text{New volume} = \frac{1}{3}\pi(4r^2)(2h)$$

$$= 8 * \frac{1}{3}\pi r^2 h$$

\Rightarrow New volume of cone = 8 times the previous one.

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Question 102

The ratio of weights of two spheres of different materials is 8 : 17 and the ratio of weights per 1 cc of materials of each is 289 : 64. The ratio of radii of the two spheres is

- A 8 : 17
- B 4 : 17
- C 17 : 4
- D 17 : 8

Answer: A

Explanation:

We know that, weigh/unit volume * volume = weight

$$(289 * r^3)/(64 * R^3) = 8/17$$

$$\Rightarrow r^3/R^3 = (64 * 8)/(289 * 17)$$

$$r/R = 8/17$$

Option A is the right answer.

Question 103

A shopkeeper buys an article for 360. He wants to make a gain of 25% on it after a discount of 10%. The marked price is

- A 486
- B 450
- C 500
- D 460

Answer: C

Explanation:

Cost Price of article = Rs 360

Profit Required = 25%

So selling Price = 1.25 x cost Price = 1.25 x 360 = Rs 450

Discount Provided on Marked price (M) = 10%

So ,

0.9 x Marked Price = Selling Price

0.9 x M = 450

M = Rs 500

Question 104

A is to pay B, 600 after 4 years time at 10% per annum interest rate compounding annually. A offers to pay up B at present. What discount percent should B allow A ?

- A 31.69
- B 40.24
- C 45.14
- D 50.15

Answer: A

Explanation:

As it is given that A will pay Rs 600 after 4 years at 10% per annum

then present value of Rs 600 = $\frac{600}{(1 + \frac{10}{100})^4}$

Present value = Rs 409.8

Discount amount = 600 - 409.8 = 190.19

Discount % = $\frac{190.19}{600} \times 100 = 31.69\%$

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Question 105

A shopkeeper sold an item for r1510 after giving a discount of 24 1/2% and thereby incurred a loss of 10%. Had he sold the item without discount, his net profit would have been

- A 641
- B $322\frac{1}{9}$
- C $422\frac{2}{9}$

D $322\frac{2}{9}$

Answer: D

Explanation:

Let M.P. = x

$$\text{Discount} = 24\frac{1}{2}\% = \frac{49}{2}\%$$

$$\therefore (100 - \frac{49}{2}\%) \text{ of } x = 1510$$

$$\Rightarrow x * (\frac{200-49}{200}) = 1510$$

$$\Rightarrow x * \frac{151}{200} = 1510$$

$$\Rightarrow x = 2000$$

Loss % = 10%

$$\therefore \text{C.P.} = \frac{1510 * 100}{90} = \frac{15100}{9}$$

$$\begin{aligned} \Rightarrow \text{Profit} &= 2000 - \frac{15100}{9} = \frac{2900}{9} \\ &= 322\frac{2}{9} \end{aligned}$$

Question 106

3,000 is divided between A, B and C, so that A receives $\frac{1}{3}$ as much as B and C together receive and B receives $\frac{2}{3}$ as much as A and C together receive. Then the share of C is

A 600

B 525

C 1,625

D 1,050

Answer: D

Explanation:

$$A+B+C = 3000$$

$$A = \frac{1}{3}(B+C)$$

add A on both sides

$$3A = B+C$$

$$4A = A+B+C = 3000 \Rightarrow A = 750/-$$

$$B = \frac{2}{3}(A+C)$$

$$3B = 2A+2C$$

add 2B on both sides

$$5B = 2A+2B+2C$$

$$5B = 2(A+B+C)$$

$$5B = 6000 \Rightarrow B = 1200/-$$

$$A+B+C = 3000$$

$$750+1200+C = 3000$$

$$C = 3000-1950 = 1050/-$$

so the answer is option D.

Question 107

$4^{61} + 4^{62} + 4^{63} + 4^{64}$ is divisible by

- A 17
- B 3
- C 11
- D 13

Answer: A

Explanation:

$$4^{61} + 4^{62} + 4^{63} + 4^{64}$$

Taking 4^{61} common from the above expression, we get :

$$\Rightarrow 4^{61} (4^0 + 4^1 + 4^2 + 4^3)$$

$$\Rightarrow 4^{61} (1 + 4 + 16 + 64) = 4^{61} * 85$$

\therefore 85 is divisible by 17

$$\Rightarrow 4^{61} + 4^{62} + 4^{63} + 4^{64} \text{ is divisible by } 17$$

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Question 108

The least number which must be added to the greatest number of 4 digits in order that the sum may be exactly divisible by 307 is

- A 132
- B 32
- C 43
- D 75

Answer: A

Explanation:

Greatest 4 digit number = 9999

When 9999 is divisible by 307, remainder obtained = 132

Least number which must be added = 132

To verify, $9999 + 132 = 10131$, which is divisible by 307.

Question 109

A cistern is provided with two pipes A and B. A can fill it in 20 minutes and B can empty it in 30 minutes. If A and B be kept open alternately for one minute each, with starting from pipe A, how soon will the cistern be filled ?

- A 121 minutes
- B 110 minutes
- C 115 minutes
- D 120 minutes

Answer: C

Explanation:

Let the amount of work equivalent to filling a cistern be 60 units

It is given that A pipe takes 20 minutes to fill 60 units,
and B pipe take 30 minutes to empty the tank.

So

A's 1 minute work = 3 units

B's 1 minute of work = -2 units (negative sign is to show that this pipe is emptying the tank)

1st minute, A will fill = 3 units

2nd minute, B will empty = 2 units

So in total 2 minutes, units filled = $3 - 2 = 1$ unit

and hence in 114 minutes only = 57 units will be filled but in 115th minute A will fill the remaining units and so total 115 minutes are required to fill the tank

Question 110

If 40 men or 60 women or 80 children can do a piece of work in 6 months, then 10 men, 10 women and 10 children together do half of the work in

A $5\frac{6}{13}$ months

B 6 months

C $5\frac{7}{13}$ months

D $11\frac{1}{13}$ months

Answer: C

Explanation:

Let the amount of work be 360 units

So it is given that it takes 40 men, 6 months or 180 days to complete 360 units of work which means

1 men 1 day work = $\frac{1}{20}$ units

it is given that it takes 60 women, 6 months or 180 days to complete 360 units of work which means

1 women 1 day work = $\frac{1}{30}$ units

it is given that it takes 80 children, 6 months or 180 days to complete 360 units of work which means

1 children 1 day work = $\frac{1}{40}$

Now, (1 men + 1 women + 1 children)'s 1 day work = $(\frac{1}{20} + \frac{1}{30} + \frac{1}{40}) = \frac{13}{120}$ units

So to complete $\frac{360}{2} = 180$ units of work (10 men + 10 women + 10 children) will take = $\frac{180 \times 120}{130}$ days = $\frac{180 \times 12}{13 \times 30}$

$\frac{6 \times 12}{13 \times 1}$

$\frac{72}{13}$

$= 5\frac{7}{13}$ months

Question 111

If a machine consumes $k/5$ kilowatts of power every t hours, how much power in kilowatts, will three such machines consume in 10 hours ?

- A $\frac{k}{t}$
- B $\frac{6t}{k}$
- C $\frac{6k}{t}$
- D $\frac{t}{k}$

Answer: C

Explanation:

A machine in t hours consumes $k/5$ kilowatt

so in 1 hour it will consume $k/5t$ kilowatt

in 10 hours 1 machine will consume = $2k/t$ kilowatt

so 3 machines in 10 hour will consume = $3 \times 2k/t$ kilowatt = $6k/t$ kilowatt

Question 112

Three cubes of sides 6 cm, 8 cm and 1 cm are melted to form a new cube. The surface area of the new cube is

- A 486 sq. cm
- B 496 sq. cm
- C 586 sq. cm
- D 658 sq. cm

Answer: A

Explanation:

Sides of the three cubes = 6, 8 & 1 cm

$$\Rightarrow \text{Total volume of the three cubes} = 6^3 + 8^3 + 1^3$$

$$= 216 + 512 + 1 = 729$$

Let side of new cube = a cm

Acc to ques :

$$\Rightarrow a^3 = 729$$

$$\Rightarrow a = \sqrt[3]{729} = 9 \text{ cm}$$

$$\Rightarrow \text{Surface area of new cube} = 6a^2$$

$$= 6 \times 9^2 = 486 \text{ cm}^2$$

Question 113

I walk a certain distance and ride back taking a total time of 37 minutes. I could walk both ways in 55 minutes. How long would it take me to ride both ways ?

- A 30 minutes
- B 19 minutes
- C 37 minutes

D 20 minutes

Answer: B

Explanation:

time to taken walk single way = $\frac{55}{2} = 27.5$ m

time taken to ride 1 way = $37 - 27.5 = 9.5$ m

time taken to ride both ways = $9.5 \times 2 = 19$ m

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Question 114

The compound interest on a certain sum of money at a certain rate per annum for two years is 2,050, and the simple interest on the same amount of money at the same rate for 3 years is 3,000. Then the sum of money is

A 20,000

B 18,000

C 21,000

D 25,000

Answer: A

Explanation:

let the sum of money be Rs P

And rate of interest = R %

It is given that for two years the Compound Interest = Rs 2050

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

$$2050 = P\left(\left(1 + \frac{R}{100}\right)^2 - 1\right) \dots\dots(1)$$

As it is given that for 3 years the Simple Interest = Rs 3000 and we know that SI for every year is same so for 1st year

Simple interest = Rs 1000

For 1st year SI and CI are same if rate of interest and Principal amount is same and hence for 1st year CI = 1000

$$\text{For 2 years the CI} = 2050 = 1000 + 1000 + \left(\frac{R}{100} \times 1000\right)$$

$$R = 5\%$$

$$\text{Simple Interest} = \frac{P \times R \times T}{100}$$

$$3000 = \frac{P \times 5 \times 3}{100}$$

$$P = \text{Rs } 20000$$

Question 115

If $ab + bc + ca = 0$, then the value of $\frac{1}{a^2 - bc} + \frac{1}{b^2 - ac} + \frac{1}{c^2 - ab}$

A 2

B -1

C 0

D 1

Answer: C

Explanation:

Since, $ab + bc + ca = 0$

If we take $a = b = 1, \Rightarrow c = \frac{-1}{2}$

To find : $a^2 - bc + b^2 - ac + c^2 - ab$

Substituting values of a, b, c we get :

$$= 1 - \left(\frac{1}{2}\right) + 1 - \left(\frac{1}{2}\right) + \left(\frac{1}{4}\right) - 1$$

$$= \frac{1}{2} + \frac{1}{2} + \frac{1}{4}$$

$$= \frac{2}{3} + \frac{2}{3} - \frac{4}{3}$$

$$= \frac{4}{3} - \frac{4}{3} = 0$$

Question 116

If the equation $2x^2 - 7x + 12 = 0$ has two roots α and β then the value of $\frac{\alpha}{\beta} + \frac{\beta}{\alpha}$ is

A $\frac{7}{2}$

B $\frac{1}{24}$

C $\frac{7}{24}$

D $\frac{97}{24}$

Answer: B

Explanation:

Equation : $2x^2 - 7x + 12 = 0$

\Rightarrow Sum of roots = $\alpha + \beta = \frac{7}{2}$

\Rightarrow Product of roots = $\alpha\beta = \frac{12}{2} = 6$

To find : $\frac{\alpha}{\beta} + \frac{\beta}{\alpha}$

$$= \frac{\alpha^2 + \beta^2}{\alpha\beta}$$

$$= \frac{(\alpha + \beta)^2 - 2\alpha\beta}{\alpha\beta}$$

$$= \frac{\frac{49}{4} - 12}{6}$$

$$= \frac{1}{4} = \frac{1}{24}$$

General Science Notes for SSC CGL

Question 117

Find the value of x for which the expression $2 - 3x - 4x^2$ has the greatest value.

A $-\frac{41}{16}$

B $\frac{3}{8}$

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

D $\frac{41}{16}$

Answer: C

Explanation:

NOTE :- To find the min/max value of an expression, we need to differentiate it, and put the first derivative equal to '0' to find value of x . Then, we need to differentiate it again and put value of x , if second derivative is less than zero, then x is maxima otherwise x is minima.

Expression : $y = 2 - 3x - 4x^2$

$$\Rightarrow \frac{dy}{dx} = -3 - 8x$$

Now, putting it equal to 0, we get :

$$\Rightarrow y' = -3 - 8x = 0$$

$$\Rightarrow x = \frac{-3}{8}$$

Differentiating it again :

$$\Rightarrow \frac{d^2y}{dx^2} = -8$$

Since, it is less than '0', $\Rightarrow x = \frac{-3}{8}$ is maximum value.

Question 118

The expression $x^4 - 2x^2 + k$ will be a perfect square if the value of k is

A 1

B 0

C $\frac{1}{4}$

D $\frac{1}{2}$

Answer: A

Explanation:

It is clear that we have to write the expression in the form $(a - b)^2$.

The second term in the given expression is $-2x^2$. This expression must correspond to the form $2ab$. Hence, $a = x^2$ and $b = 1$.

Hence, k must be equal to 1 for the expression to be a perfect square.

Option A is the right answer.

Question 119

If $(x-1)$ and $(x+3)$ are the factors of $x^2 + k_1x + k_2$ then

A $k_1 = -2, k_2 = -3$

B $k_1 = 2, k_2 = -3$

C $k_1 = 2, k_2 = 3$

D $k_1 = -2, k_2 = 3$

Answer: B

Explanation:

METHOD1:

If $(x-1)$ and $(x+3)$ are the factors of $x^2 + k_1x + k_2$

then its zeros are 1, -3

$$\text{sum of zeros} = -k_1 = -2 \rightarrow k_1 = 2$$

$$\text{product of zeros} = k_2 = -3 \rightarrow k_2 = -3$$

so the answer is option B.

METHOD2:

Multiply $(x-1)$ and $(x+3)$

$$= x^2 - x + 3x - 3$$

$$= x^2 + 2x - 3$$

now, compare $x^2 + 2x - 3$ with $x^2 + k_1x + k_2$

$$k_1 = 2 \text{ and } k_2 = -3$$

so the answer is option B.

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Question 120

The ratio of the number of boys and girls in a school is 2 : 3. If 25% of the boys and 30% of the girls are scholarship holders, the percentage of the school students who are not scholarship holders is

- A 72
- B 36
- C 54
- D 60

Answer: A

Explanation:

Let the number of boys be $2y$ and number of girls be $3y$

$$25\% \text{ of boys} = 0.25 \times 2y = 0.5y$$

$$30\% \text{ of girls} = 0.3 \times 3y = 0.9y$$

$$\text{total scholarship holder} = 0.5y + 0.9y = 1.4y$$

$$\% \text{ of no scholarship holder} = \frac{3.6y}{5y} \times 100 = 72\%$$

Question 121

The mean of 20 items is 55. If two items 45 and 30 are removed, the new mean of the remaining items is

- A 65.1
- B 65.3
- C 56.9
- D 56

Answer: C

Explanation:

The mean of 20 items is 55

$$\Rightarrow \text{Sum of 20 items} = 55 \times 20 = 1100$$

If 45 and 30 are removed

$$\Rightarrow \text{New sum} = 1100 - 45 - 30 = 1025$$

$$\text{and number of items remained} = 20 - 2 = 18$$

$$\Rightarrow \text{New mean} = \frac{1025}{18} = 56.9$$

Question 122

Two pipes, P and Q can fill a cistern in 12 and 15 minutes respectively. If both are opened together and at the end of 3 minutes, the first is closed, how much longer will the cistern take to fill?

- A 5 minutes
- B $8\frac{1}{2}$ minutes
- C $8\frac{3}{4}$ minutes
- D $8\frac{1}{4}$ minutes

Answer: D

Explanation:

Let the amount of work in filling a cistern equivalent to 60 units

Pipe P takes 12 minutes to fill 60 units

P's 1 minute work = 5 units

Q takes 15 minutes to fill 60 units

Q's 1 minute work = 4 units

If both work together than (P+Q)'s 1 minute work = 9 units

they both are opened for 3 minutes and the amount of units filled = $9 \times 3 = 27$ units

Now it is given that pipe P is closed

so amount of time taken by pipe Q to fill the tank = $\frac{33}{4} = 8.25$ minutes = $8\frac{1}{4}$ minutes

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Question 123

If there is a profit of 20% on the cost price, the percentage of profit on the sale price is

- A $16\frac{2}{3}$ %
- B 12 %
- C $15\frac{1}{3}$ %
- D 16 %

Answer: A

Explanation:

Let C.P. = $100x$

Profit % = 20%

$$\Rightarrow \text{Profit} = \frac{20}{100} * 100x = 20x$$

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

$$\text{Now, \% profit on selling price} = \frac{20x}{120x} * 100$$

$$= \frac{100}{6} = 16\frac{2}{3}\%$$

Question 124

25% of 120 + 40% of 380 = ? of 637

A $\frac{2}{7}$

B $\frac{1}{7}$

C $\frac{4}{7}$

D $\frac{3}{7}$

Answer: A

Explanation:

Let the missing number be y

$$25\% \text{ of } 120 = \frac{25}{100} \times 120 = 30$$

$$40\% \text{ of } 380 = \frac{40}{100} \times 380 = 152$$

$$30 + 152 = y \times 637$$

$$182 = y \times 637$$

$$y = 27$$

Question 125

A thief steals a car at 1.30 p.m. and drives it off at 40 km/hr. The theft is discovered at 2 p.m. and the owner sets off in another car at 50 km/hr. He will, overtake the thief at

A 5 p.m.

B 4 p.m.

C 4.30 p.m.

D 6 p.m.

Answer: B

Explanation:

by the time theft is discovered they have already travelled for 30 min

i.e, distance = speed*time

$$\text{distance covered by thief by 2 pm} = 40 \times \frac{1}{2} = 20 \text{ km}$$

difference b/w the speed of owner and thief = 50-40 = 10 kmph

that means every hour after 2 pm the owner will cut the distance short b/w thief and himself by 10 km

so as thief is 20 km far from owner he will take 2 hrs to catch the thief

therefore time to overtake the thief = 2+2 = 4 pm

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Question 126

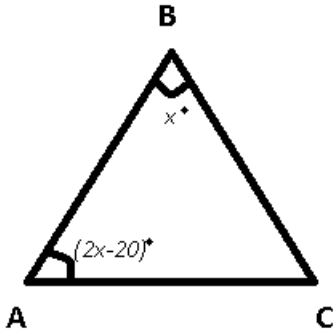
In a $\triangle ABC$, $AB = BC$, $\angle B = x^\circ$ and $\angle A = (2x - 20)^\circ$. Then $\angle B$ is

A 54

- B 30
- C 40
- D 44

Answer: D

Explanation:



Since, $AB = BC$

$$\Rightarrow \angle A = \angle C = (2x - 20)^\circ$$

In $\triangle ABC$

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

$$\Rightarrow (2x - 20) + x + (2x - 20) = 180^\circ$$

$$\Rightarrow 5x = 220$$

$$\Rightarrow x = 44^\circ$$

Question 127

ABC is an isosceles triangle and $AB = AC$ and D is a point on AC so that $BD = DC$ if $\angle ABD = \angle CBD$ then the measure of $\angle BAC$

- A 54
- B 18
- C 45
- D 72

Answer: C

Explanation:

From the description, it is clear that it is an isosceles triangle.

Let angle A = A.

Angle B + Angle C = $180 - A$.

Let angle B be B.

Angle C = angle B = B.

$2B = 180 - A$.

$$\Rightarrow B = 90 - A/2. \Rightarrow \text{Angle } \angle B = 90 - A/2$$

Now, angle CBD = angle ABD.

Angle CBD = $45 - A/4$.

But, we know that Angle ACB = Angle CBD.

$$\Rightarrow 90 - A/2 = 45 - A/4.$$

$$45 = A/2.$$

A = 90 degrees.

B = $90/2 = 45$ degrees.

Option C is the right answer.

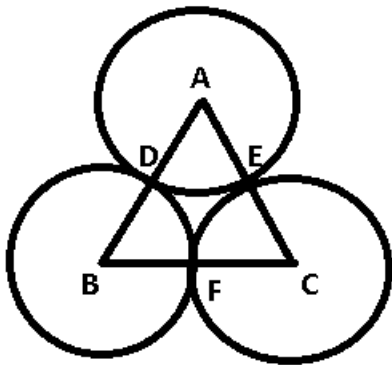
Question 128

Three circles of radii 3.5 cm, 4.5 cm and 5.5 cm touch each other externally. Then the perimeter of the triangle formed by joining the centres of the circles, in cm, is

- A 27
- B $\pi[(3.5)^2 + (4.5)^2 + (5.5)^2]$
- C 27π
- D 13.5

Answer: A

Explanation:



$$\Rightarrow AD = AE = 3.5 \text{ cm}$$

$$\text{and } BD = DF = 4.5 \text{ cm}$$

$$\text{and } CF = CE = 5.5 \text{ cm}$$

$$\text{Perimeter of } \triangle ABC = AD + AE + BD + BF + CF + CE$$

$$= 2 * (3.5 + 4.5 + 5.5)$$

$$= 2 * 13.5 = 27 \text{ cm}$$

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Question 129

If $\sec\theta + \tan\theta = 5$, then the value of the $\frac{\tan\theta+1}{\tan\theta-1}$

- A $\frac{11}{7}$
- B $\frac{13}{7}$
- C $\frac{15}{7}$
- D $\frac{17}{7}$

Answer: D

Explanation:

$$\sec^2\theta - \tan^2\theta = 1$$

$$(\sec\theta + \tan\theta)(\sec\theta - \tan\theta) = 1$$

$$\sec\theta - \tan\theta = \frac{1}{5} \text{-----} 1$$

$$\sec\theta + \tan\theta = 5 \text{-----} 2$$

Adding 1 and 2

$$2\sec\theta = 5 + 5$$

$$\sec\theta = \frac{26}{10}$$

$$\text{Hence } \tan\theta = \frac{24}{10}$$

$$\tan\theta + 1 = \frac{24}{10} + 1 = \frac{34}{10}$$

$$\tan\theta - 1 = \frac{24}{10} - 1 = \frac{14}{10}$$

$$\frac{\tan\theta + 1}{\tan\theta - 1} = \frac{\frac{34}{10}}{\frac{14}{10}}$$

$$= \frac{34}{14} = \frac{17}{7}$$

Option D is the correct answer.

Question 130

If $\tan^2\theta = 1 - e^2$, then the value of $\sec\theta + \tan^3\theta \operatorname{cosec}\theta$ is

A $(2 + e^2)^2$

B $(2 - e^2)^2$

C $(2 + e^2)^3$

D $(2 - e^2)^3$

Answer: D

Explanation:

we know, $1 + \tan^2\theta = \sec^2\theta$

given that $\tan^2\theta = 1 - e^2$

$$\sec^2\theta - 1 = 1 - e^2$$

$$\sec^2\theta = 2 - e^2 \dots\dots\dots(1)$$

$$\text{Now, } \sec\theta + \tan^3\theta \operatorname{cosec}\theta = \sec\theta + \tan^2\theta \tan\theta \operatorname{cosec}\theta$$

$$= \sec\theta(1 + \tan^2\theta) = \sec^3\theta \dots\dots\dots(2)$$

Using equation 1 and 2

$$\sec\theta + \tan^3\theta \operatorname{cosec}\theta = (2 - e^2)^{\frac{3}{2}}$$

Question 131

Which one of the following is true for $0^\circ < \theta < 90^\circ$?

A $\cos\theta \leq \cos^2\theta$

B $\cos\theta > \cos^2\theta$

C $\cos\theta < \cos^2\theta$

D $\cos\theta \geq \cos^2\theta$

Answer: B

Explanation:

We know that, cos values for angles from 0 to 90 degrees is positive is less than 1. $1^2 = 1$. So except for $\cos 90$ and $\cos 0$, the value of $\cos^2 A$ will be less than $\cos A$ (Since we are effectively squaring a number less than 1 and positive). Hence, option B is the right

answer.

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Question 132

If $x (\sin 60) \tan^2 30^\circ - \tan 45^\circ = \operatorname{cosec} 60^\circ \cot 30^\circ - \sec^2 45^\circ$, then $x =$

- A $2\sqrt{3}$
- B $-2\sqrt{3}$
- C 6
- D -4

Answer: A

Explanation:

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

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

$$\tan 45 = 1$$

$$\operatorname{cosec} 60 = \frac{2}{\sqrt{3}}$$

$$\cot 30 = \sqrt{3}$$

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

using the above values in: $x \sin 60^\circ \tan^2 30^\circ - \tan 45^\circ = \operatorname{cosec} 60^\circ \cot 30^\circ - \sec^2 45^\circ$

$$x \times \frac{\sqrt{3}}{2} \times \frac{1}{\sqrt{3}} - 1 = \frac{2}{\sqrt{3}} \times \sqrt{3} - \sqrt{2}^2$$

$$x = 2\sqrt{3}$$

Question 133

If $2x^2 + 5x + 1 = \frac{1}{3}$ then the value of $(x + \frac{1}{2x})$ is

- A 15
- B 10
- C 20
- D 5

Answer: D

Explanation:

$$\text{Expression : } 2x^2 + 5x + 1 = \frac{1}{3}$$

$$\Rightarrow 2x^2 + 5x + 1 = 15x$$

$$\Rightarrow 2x^2 + 1 = 10x$$

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

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

$$= \frac{10x}{2x}$$

$$= 5$$

Question 134

If $x^3 + \frac{3}{x} = 4(a^3 + b^3)$ and $3x + \frac{1}{x^3} = 4(a^3 - b^3)$, then $a^2 - b^2$ is equal to

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

Answer: C

Explanation:

Given : $x^3 + \frac{3}{x} = 4(a^3 + b^3)$ and $3x + \frac{1}{x^3} = 4(a^3 - b^3)$

Adding the above equations, we get :

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

$$\Rightarrow \left(x + \frac{1}{x}\right)^3 = (2a)^3$$

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

Similarly, subtracting the above equations, we get :

$$\Rightarrow x - \frac{1}{x} = 2b \text{ -----Eqn(2)}$$

Now, adding eqns(1) & (2)

$$\Rightarrow 2(a + b) = 2x$$

$$\Rightarrow (a + b) = x$$

Subtracting eqn(2) from (1)

$$\Rightarrow 2(a - b) = \frac{2}{x}$$

$$\Rightarrow (a - b) = \frac{1}{x}$$

To find : $a^2 - b^2$

$$= (a + b)(a - b)$$

$$= (x)\left(\frac{1}{x}\right) = 1$$

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Question 135

If $x = 6 + i$, then the value of $x^4 + \frac{1}{x^4}$

- A 1448
- B 1442
- C 1444
- D 1446

Answer: B

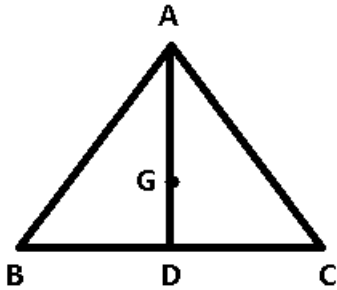
Question 136

If AD is the median of the triangle ABC and G be the centroid, then the ratio of AG : AD is

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

Answer: D

Explanation:



A centroid divides a median in the ratio 2 : 1

$$\Rightarrow \frac{AG}{DG} = \frac{2}{1}$$

$$\Rightarrow \frac{AG}{AG+DG} = \frac{2}{2+1}$$

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

=> Required ratio = 2 : 3

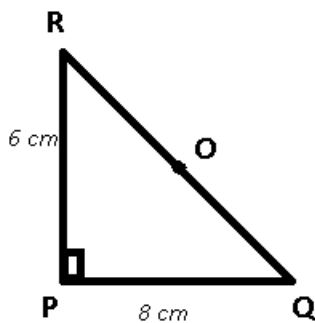
Question 137

In $\triangle PQR$, $\angle RPQ = 90^\circ$ PR=6CM and PQ=8CM then the radius of the circumcircle of $\triangle PQR$ is

- A 5 cm
- B 3 cm
- C 4 cm
- D 4.5 cm

Answer: A

Explanation:



In $\triangle PQR$

$$\Rightarrow QR = \sqrt{(PR)^2 + (PQ)^2}$$

$$\Rightarrow QR = \sqrt{6^2 + 8^2} = \sqrt{100}$$

=> QR = 10 cm

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

=> circumradius = $\frac{QR}{2} = \frac{10}{2} = 5$ cm

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Question 138

Two supplementary angles are in the ratio 2 : 3. The angles are

- A 33°, 57°
- B 66°, 114°
- C 72°, 108°
- D 36°, 54°

Answer: C

Explanation:

Let the angles be $2x$ and $3x$

Since, the angles are supplementary

$$\Rightarrow 2x + 3x = 180^\circ$$

$$\Rightarrow x = \frac{180^\circ}{5}$$

$$\Rightarrow x = 36^\circ$$

=> Angles are 72° and 108°

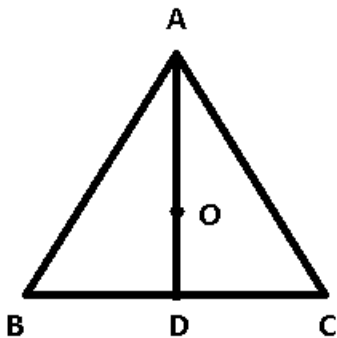
Question 139

In a triangle ABC, median is AD and centroid is O. AO = 10 cm. The length of OD (in cm) is

- A 6
- B 4
- C 5
- D 3.3

Answer: C

Explanation:



A centroid divides a median in the ratio 2 : 1

$$\Rightarrow \frac{AO}{OD} = \frac{2}{1}$$

$$\Rightarrow \frac{10}{OD} = \frac{2}{1}$$

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

Question 140

$\Delta ABCD$ is parallelogram. P and Q are the mid-points of sides BC and CD respectively. If the area of ΔABC is 12 cm², then the area of ΔAPQ is

- A 12 cm
- B 8 cm
- C 9 cm
- D 10 cm

Answer: C

Explanation:

$$\begin{aligned} \Delta APQ &= \frac{3}{8} \times ABCD \\ &= \frac{3}{8} \times 2ABC \\ &= \frac{3}{8} \times 12 \\ &= 9 \end{aligned}$$

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Question 141

If $x = a \sec \alpha \cos \beta$, $y = b \sec \alpha \sin \beta$, $z = c \tan \alpha$, then the value of $\frac{x^2}{a^2} + \frac{y^2}{b^2} - \frac{z^2}{c^2}$

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

Answer: C

Explanation:

From question

$$x^2 = a^2 \sec^2 \alpha \cos^2 \beta$$

$$\frac{x^2}{a^2} = \sec^2 \alpha \cos^2 \beta$$

$$y^2 = b^2 \sec^2 \alpha \sin^2 \beta$$

$$\frac{y^2}{b^2} = \sec^2 \alpha \sin^2 \beta$$

$$z^2 = c^2 \sec^2 \alpha \tan^2 \alpha$$

$$\frac{z^2}{c^2} = \sec^2 \alpha \tan^2 \alpha$$

$$\frac{x^2}{a^2} + \frac{y^2}{b^2} - \frac{z^2}{c^2} = \sec^2 \alpha \cos^2 \beta + \sec^2 \alpha \sin^2 \beta - \sec^2 \alpha \tan^2 \alpha$$

$$\sec^2 \alpha - \tan^2 \alpha = 1$$

Hence Option C is the correct answer.

Question 142

If $\frac{x^2}{a^2} + \frac{y^2}{b^2} - \frac{z^2}{c^2}$ and $\frac{\sin \alpha}{\sin \beta} = b$ then the value of $\sin^2 \beta$ in terms of a and b is

A $\frac{a^2+1}{a^2-b^2}$

B $\frac{a^2-b^2}{a^2+b^2}$

C $\frac{a^2-1}{a^2-b^2}$

D $\frac{a^2-1}{a^2+b^2}$

Answer: C

Question 143

The value of $\frac{\cos^2 60^\circ + 4 \sec^2 30^\circ - \tan^2 45^\circ}{\sin^2 30^\circ + \cos^2 30^\circ}$

A $\frac{55}{12}$

B $\frac{65}{12}$

C $\frac{67}{12}$

D $\frac{67}{10}$

Answer: A

Explanation:

We need to find value of $\frac{\cos^2 60^\circ + 4 \sec^2 30^\circ - \tan^2 45^\circ}{\sin^2 30^\circ + \cos^2 30^\circ}$

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

So, $\frac{\cos^2 60^\circ + 4 \sec^2 30^\circ - \tan^2 45^\circ}{\sin^2 30^\circ + \cos^2 30^\circ} = \frac{\cos^2 60^\circ + 4 \sec^2 30^\circ - \tan^2 45^\circ}{1}$

$\cos^2 60^\circ = \frac{1}{2}$

$\sec^2 30^\circ = \frac{2}{\sqrt{3}}$

$\tan^2 45^\circ = 1$

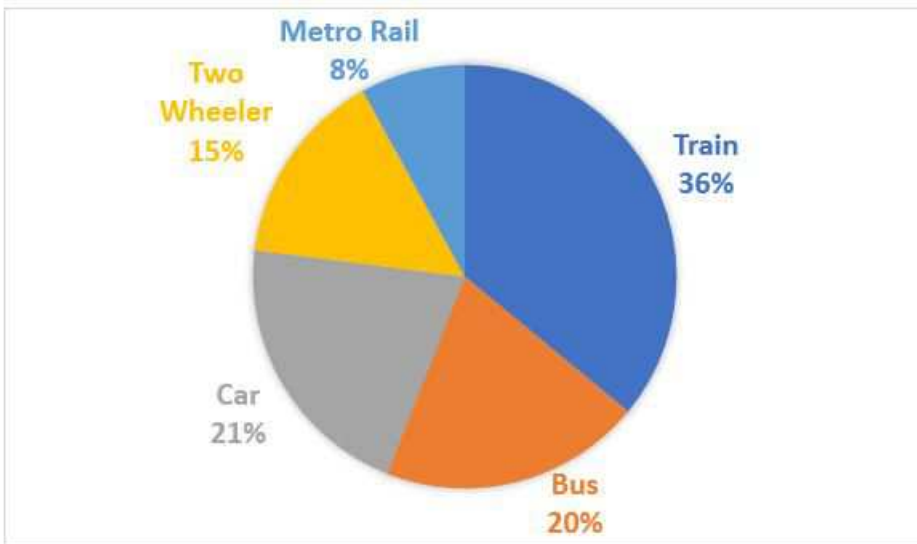
So, $\frac{\cos^2 60^\circ + 4 \sec^2 30^\circ - \tan^2 45^\circ}{1} = \frac{1}{4} + \frac{4}{3} - 1^2$

$\frac{55}{12}$

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Instructions

The pie chart given below represents the modes of transport for 1400 officers of the Staff Selection Commission, Kolkata. Study the chart and answer the following questions.



Question 144

The ratio of two-wheelers and cars being used as modes of transport is

- A 4 : 7
- B 7 : 5
- C 5 : 7
- D 3 : 5

Answer: C

Explanation:

% of officers using two wheelers = 15%

% of officers using cars = 21%

$$\Rightarrow \text{Required ratio} = \frac{15}{21} = 5 : 7$$

Question 145

Write down the difference: (officers availing train - officers availing car)

- A 210
- B 462
- C 562
- D 452

Answer: A

Explanation:

Total no. of officers = 1400

% of officers using train = 36%

$$\Rightarrow \text{No. of officers using train} = \frac{36}{100} * 1400 = 504$$

% of officers using cars = 21%

$$\Rightarrow \text{No. of officers using cars} = \frac{21}{100} * 1400 = 294$$

$$\Rightarrow \text{Required difference} = 504 - 294 = 210$$

Question 146

The number of officers who go to office by Metro Rail is

- A 142
- B 132
- C 112
- D 122

Answer: C

Explanation:

Total no. of officers = 1400

% of officers using Metro rail = 8%

$$\Rightarrow \text{No. of officers using Metro rail} = \frac{8}{100} * 1400 = 112$$

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Question 147

The number of officers who go to office by car is

- A 394
- B 304
- C 214
- D 294

Answer: D

Explanation:

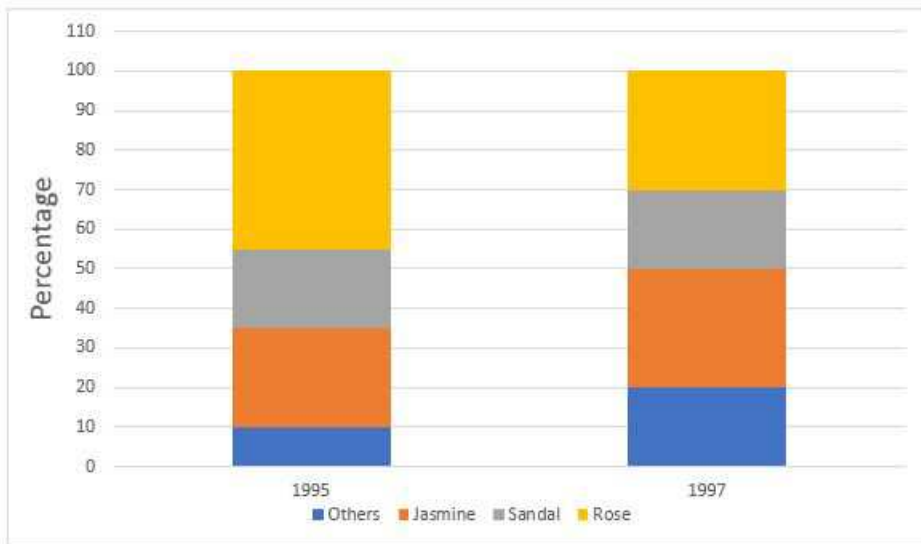
Total no. of officers = 1400

% of officers using cars = 21%

$$\Rightarrow \text{No. of officers using cars} = \frac{21}{100} * 1400 = 294$$

Instructions

The production figures of a perfume manufacturer are given in the form of percentage in sub-divided bar diagram. Study the diagram and answer the questions.



Question 148

What is the ratio of percentage production of rose perfume during 1995 to that during the year 1997 ?

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

Answer: B

Explanation:

% production of rose perfume during 1995 = 45%

% production of rose perfume during 1997 = 30%

$$\Rightarrow \text{Required ratio} = \frac{45}{30} = 3 : 2$$

Question 149

What is the percentage of production of sandal perfume during the year 1995 over that during 1997 ?

- A 100%
- B 1%
- C 0%
- D 50%

Answer: A

Explanation:

% of sandal perfume produced during 1995 = 20%

% of sandal perfume produced during 1997 = 20%

$$\Rightarrow \% \text{ of production of sandal perfume during the year 1995 to that of 1997} = \frac{20}{20} * 100 = 100\%$$

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Question 150

What is the production of jasmine perfume in the year 1997? Given that during the year 1997 total perfumed production was 5000 units.

- A 1209
- B 2500
- C 2000
- D 1500

Answer: D

Explanation:

Total perfume production during 1997 = 5000 units

% production of jasmine perfume in 1997 = 30%

$$\begin{aligned} \Rightarrow \text{Production of jasmine perfume during 1997} &= \frac{30}{100} * 5000 \\ &= 1500 \text{ units} \end{aligned}$$

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Reasoning

Instructions

For the following questions answer them individually

Question 151

Amnesia : Memory :: Paralysis : ?

- A Legs
- B Movement
- C Limbs
- D Handicapped

Answer: B

Explanation:

Amnesia is a partial or total loss of memory, while paralysis is the loss of ability to move.

=> Ans - (B)

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Question 152

AFKP : BGLQ :: CHMR : ?

- A DINS
- B DFICP

C DNIS

D EJOT

Answer: A

Explanation:

Expression = AFKP : BGLQ

The pattern followed is :

A	F	K	P
(+1)	(+1)	(+1)	(+1)
B	G	L	Q

Similarly, for CHMR :

C	H	M	R
(+1)	(+1)	(+1)	(+1)
D	I	N	S

=> Ans - (A)

Question 153

PREMONITION : MONITIONERP :: LINSEEDOIL : ?

A SEEDOILNLI

B SEEDOILLIN

C SEEDOILNIL

D SEEDOILILN

Answer: C

Explanation:

Expression = PREMONITION : MONITIONERP

The pattern followed is that the first three alphabets are written in reverse order and are appended at the end in the given code. Rest of the letters (from 4th onwards) are written as it is from first position.

Eg = PRE -> ERP (at the end)

Similarly, for LINSEEDOIL

First three letters, LIN -> NIL

and rest of the letters SEEDOIL -> SEEDOIL (in the beginning)

Thus, LINSEEDOIL : **SEEDOILNIL**

=> Ans - (C)

Question 154

18 : 162 :: 36 : ?

A 984

B 1296

C 72

D 648

Answer: D

Explanation:

Expression = $18 : 162 :: 36 : ?$

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

Eg = $18 : \frac{18^2}{2} = 18 : 162$

Similarly, $\frac{36^2}{2} = \frac{1296}{2} = 648$

=> Ans - (D)

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Question 155

9536 : 6203 :: 5873 : ?

A 2540

B 2343

C 2353

D 2531

Answer: A

Explanation:

Expression = $9536 : 6203 :: 5873 : ?$

The pattern followed is that '3333' is subtracted from both the numbers.

Eg : $9563 - 3333 = 6203$

Similarly, $5873 - 3333 = 2540$

=> Ans - (A)

Question 156

Vigilant : Alert :: Viable : ?

A Beautiful

B Useful

C Simple

D Feasible

Answer: D

Explanation:

Expression = Vigilant : Alert :: Viable : ?

Vigilant and alert have similar meaning as 'being careful'. Thus, synonym of viable is **feasible**, meaning 'capable of working'.

=> Ans - (D)

Instructions

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

Question 157

A 222

B 10

C 66

D 125

Answer: D

Explanation:

Except 125, all the given choices are even numbers, also 125 is the only perfect cube number, hence it is the odd one out.

=> Ans - (D)

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Question 158

A 41 - 72

B 12 - 30

C 42 - 51

D 11 - 20

Answer: A

Explanation:

The difference in each of the pairs is a multiple of 9 but for the first option.

(A) : $72 - 41 = 31$

(B) : $30 - 12 = 18$

(C) : $51 - 42 = 9$

(D) : $20 - 11 = 9$

=> Ans - (A)

Question 159

A FIK

B DGI

C MPR

D KND

Answer: D

Explanation:

(A) : F (+3 letters) = I (+2 letters) = K

(B) : D (+3 letters) = G (+2 letters) = I

(C) : M (+3 letters) = P (+2 letters) = R

(D) : K (+3 letters) = N (-10 letters) = D

=> Ans - (D)

Question 160

A Varanasi

B Agra

C Haridwar

D Allahabad

Answer: C

Explanation:

All the given cities except for Haridwar are in Uttar Pradesh, whereas Haridwar is in Uttarakand.

=> Ans - (C)

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Question 161

A Phycology : Algae

B Ornithology : Birds

C Mycology : Fungi

D Biology : Botany

Answer: D

Explanation:

Phycology is the study of Algae. Ornithology is the study of Birds. Mycology is the study of Fungi, but Biology and Botany are both branches of Science.

=> Ans - (D)

Instructions

For the following questions answer them individually

Question 162

Arrange the following words in a meaningful order :

1. Brother
2. Husband
3. Father
4. Son
5. Son-in-law

A 3, 2, 1, 5, 4

B 4, 1, 2, 5, 3

C 4, 1, 5, 2, 3

D 3, 1, 4, 2, 5

Answer: B

Explanation:

The given relations are in order of birth .

When we are born we become a son . For our siblings we are Brother .

When we marry we become Husband and then Son in law.

When we give birth to a child , we become father .

Hence, 4, 1, 2, 5, 3

Question 163

Arrange the following words according to the English dictionary :

1. Fearsome
2. Fealty
3. Feasible
4. Feature
5. Feather

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

Answer: D

Explanation:

Clearly, the first three letters are same. So we need 4th letter.
They are R, L, S, Tu and Th. Their order is L, R, S, Th, Tu
Hence, 2, 1, 3, 5, 4

General Science Notes for SSC CGL

Question 164

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

a_c_baab_cb_

- A abbe
B abab
C aabb
D bcca

Answer: D

Explanation:

When we sequentially place "bcca" in the gaps the sequence is
a b c c baab c cb a.
When the sequence is split into two equal parts, we get abccba.
Hence Option D is the correct answer.

Question 165

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

- A WBKQXYF
B WYBFKQX
C YBQQFHN
D WZCHJMQ

Answer: B

Explanation:

WYBFKQX = W X Y ZA B CDE F GHIJ K LMNOP Q RSTUV X.

The number of letters between each term increases by 1.

Hence Option B is the correct 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 166

5, 11, 21, 43, 85, ?

A 185

B 170

C 171

D 181

Answer: C

Explanation:

Let the missing number be y

here the given sequence is 5, 11, 21, 43, 85, y

$$11 = 5 \times 2 + 1$$

$$21 = 11 \times 2 - 1$$

$$43 = 21 \times 2 + 1$$

$$85 = 43 \times 2 - 1$$

So the pattern is that next term is twice of previous term +1 for digits at even places and Twice the previous term - 1 for numbers at odd places , hence

$$y = 85 \times 2 + 1 = 170 + 1 = 171$$

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Question 167

12, 27, 85, 345, ?

A 1737

B 1380

C 1725

D 1731

Answer: D

Explanation:

let the missing number be y

here the given sequence is 12, 27, 85, 345, y

we can see that

$$27 = 12 \times 2 + 3$$

$$85 = 27 \times 3 + 4$$

$$345 = 85 \times 4 + 5$$

So from the existing pattern ,

$$y = 345 \times 5 + 6 = 1731$$

Question 168

ADGJ, YVSP, KNQT, ?

- A SVZB
- B QTWZ
- C OLIF
- D LORU

Answer: C

Explanation:

The letters of terms in odd places have two letters in between them and each letter succeeds the previous letter.

ADGJ = ABCDEFGHIJ

The letters of terms in even places have two letters in between them and each letter precedes the previous letter.

YVSP = YXWVUTSRQP

Hence the fourth term would be OLIF.

Option C is the correct answer.

Instructions

For the following questions answer them individually

Question 169

Pointing to a man in a photograph, a woman said, "His brother's father is the only son of my grandfather." How is the woman related to the man in the photograph ?

- A Daughter
- B Mother
- C Aunt
- D Sister

Answer: D

Explanation:

Only son of the woman's grandfather is that woman's father.

Now, the woman's brother's father is that woman's father, => the woman and the man are brothers and sisters.

=> Ans - (D)

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Question 170

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, Dramatics and Computer Science?

- A Nirmala

B Madhavi

C Shalini

D Anjana

Answer: B

Explanation:

According to the question ,

Madhavi is good in Dramatics, Computer Science ,Physics

Nirmala is good in Physics, History, Maths

Shalini is good in Dramatics ,Computer Science ,History, Dramatics

Anjana is good in Computer Science ,Physics, Maths

Purnima is good in Physics, History, Dramatics

Hence, Madhavi is good in Dramatics, Computer Science ,Physics.

Question 171

Mrs. Lata was 3 times as old as her son 8 years ago. Their total age is 64 years now. How old (in years) is Mrs. Lata now?

A 48

B 12

C 36

D 44

Answer: D

Explanation:

Let Mrs. Lata's age = x years

=> Son's age = $(64 - x)$ years

According to ques,

$$\Rightarrow 3(64 - x - 8) = (x - 8)$$

$$\Rightarrow 3(56 - x) = x - 8$$

$$\Rightarrow 168 - 3x = x - 8$$

$$\Rightarrow 3x + x = 168 + 8$$

$$\Rightarrow 4x = 176$$

$$\Rightarrow x = \frac{176}{4} = 44 \text{ years}$$

=> Ans - (D)

Question 172

From the given alternatives, select the word which cannot be formed using the letters of the given word. INQUISITIVENESS

A QUILTS

B QUIETNESS

C INVENTIVE

D QUININE

Answer: C

Explanation:

From the given alternatives, the word which cannot be completely formed using the letters of the given word 'INQUISITIVENESS' is INVENTIVE because INVENTIVE requires 2Vs. correct answer is option C.

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Question 173

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

- A 13, 8, 9, 17, 14, 22
- B 1, 12, 7, 5, 2, 18, 1
- C 1, 7, 5, 12, 18, 1
- D 4, 21, 7, 18, 13, 1

Answer: B

Explanation:

Option B :

1 = A ; 12 = L ; 7 = G ; 5 = E ; 2 = B ; 18 = R ; 1 = A

Question 174

If "SEQUENCE" is coded as "HVJFVMXY" then how will "CHILDREN" be coded in the same code ?

- A MVIWORSX
- B XSRMWIVM
- C XSROWIVM
- D DSROWIUN

Answer: C

Explanation:

Given : "SEQUENCE" is coded as "HVJFVMXY"

Each letter is coded as the last letter that is equidistant from the reverse end.

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
↓	↓	↓	
Z	Y	X	W	V	U	T	S	R	Q	P	O	N	M	L	K	J	I	H	G	F	E	D	C	B	A

Eg : A → Z, B → Y, C → X and so on.

Thus, CHILDREN is coded as = XSRMWIVM

=> Ans - (C)

Question 175

If "GIVE" is coded as "5137" and "BAT" is coded as "924", how will "GATE" be coded in the same code ?

- A 2547
- B 5427
- C 5724
- D 5247

Answer: D

Explanation:

the codes for letters can be inferred as :
If "G=5,I=1,V=3,E=7 and "B=9,A=2,T=4.
then GATE will be coded as 5247.option D.

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Question 176

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

CAR- Φαξ

SIT- ἦψΚ

WELL - σιyy

MAP - μαβ

Given code : γαμβ

A LAMP

B LAME

C LAMA

D LAMB

Answer: A

Explanation:

Each letter is coded as the corresponding symbol.

Thus, codes for :

y -> L

α -> A

μ -> M

β -> P

Thus, γαμβ -> **LAMP**

=> Ans - (A)

Question 177

From the given alternatives, select the word which can be formed using the letters of the given word.

EXAMINATION

A ANIMATION

B ANIMAL

C EXAMINER

D NATIONAL

Answer: A

Explanation:

From the given alternatives, the only word which can be completely formed using the letters of the given word EXAMINATION is ANIMATION. Option A.

Question 178

If '+' means '-', '-' means 'x'; 'x' means '÷' and '÷' means '+', then $25 \times 5 \div 30 + 8 - 2 = ?$

- A 54
- B 15
- C 18
- D 19

Answer: D

Explanation:

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

The given equation is : $25 \times 5 \div 30 + 8 - 2 = 25 \div 5 + 30 - 8 \times 2$

Using BODMAS rule , $25 \div 5 + 30 - 8 \times 2 = 5 + 30 - 16 = 19$

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Question 179

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

$5 \times 8 = 28$, $3 \times 7 = 12$, $8 \times 6 = 35$, $13 \times 13 = ?$

- A 169
- B 130
- C 140
- D 144

Answer: D

Explanation:

If in a given system $5 \times 8 = 28$, $3 \times 7 = 12$, $8 \times 6 = 35$ then it can be generalized as :

$a \times b = (a-1) \times (b-1)$.

therefore the value of 13×13 will be $12 \times 12 = 144$. option D.

Question 180

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

$13 * 12 * 5 * 4$

- A = - +
- B = + -
- C + - =
- D - = +

Answer: B

Explanation:

In this question we need to check options and then decide our answer :

given pattern is $13 * 12 * 5 * 4$

option A) = - +

$13 = 12 - 5 + 4$, here we can say that $13 \neq 11$

option B) = + -

$13 = 12 + 5 - 4$, here we can say that $13 = 13$

hence option B is the correct answer.

Question 181

A boat can travel with a speed of 30 km/hr in still water. If the speed of the stream is 6 km/hr, find the time taken by the boat to go 108 km downstream.

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

Answer: C

Explanation:

Given that Speed of Boat (B) = 30 km/hr

Speed of River (R) = 6 km/hr

Speed in downstream = $30 + 6 = 36$ km/hr

Distance to be covered (D) = 108 km

Using Distance = Speed x Time

$$\text{Time} = \frac{\text{Distance}}{\text{Speed}} = \frac{108}{36} = 3 \text{ hour}$$

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Instructions

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

Question 182

4 7 9
8 6 8
3 7 9
35 49 ?

- A 63
- B 89
- C 81
- D 64

Answer: C

Explanation:

Consider, Column wise.

$$4 \times 8 + 3 = 35$$

$$7 \times 6 + 7 = 49$$

$$\text{Hence, } 9 \times 8 + 9 = 81$$

Question 183

7 6 8
5 4 9
3 2 1
83 56 ?

- A 146
- B 128
- C 136
- D 148

Answer: A

Explanation:

Consider , column wise.

$$7^2+5^2+3^2=83$$

$$6^2+4^2+2^2=56$$

$$8^2+9^2+1^2=x$$

Hence, x = 146

Question 184

15 225 30
7 70 20
3 ? 8

- A 70
- B 12
- C 16
- D 24

Answer: B

Explanation:

Given,

15 225 30

7 70 20

3 x 8

The middle term is equal to (1st term * half of last term).

$$\text{Hence, } x = 3 \times (8 \div 2)$$

$$= 12$$

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Instructions

For the following questions answer them individually

Question 185

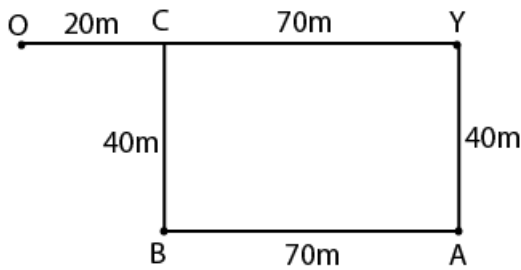
Rahul travelled from a point and straightly goes to point 'Y' at a distance of 90 metres. He turned right and walked 40 metres, then again turned right and walked 70 metres. Finally, he turned right and walked 40 metres. How far he is from the starting point ?

- A 70 metres
- B 10 metres
- C 20 metres
- D 30 metres

Answer: C

Explanation:

Rahul's path can be traced as O-Y-A-B-C.



OY = 90m
CY = 70m
OC = 20m

the distance between his start and finish points is OC=20m.
the correct answer is option C.

Question 186

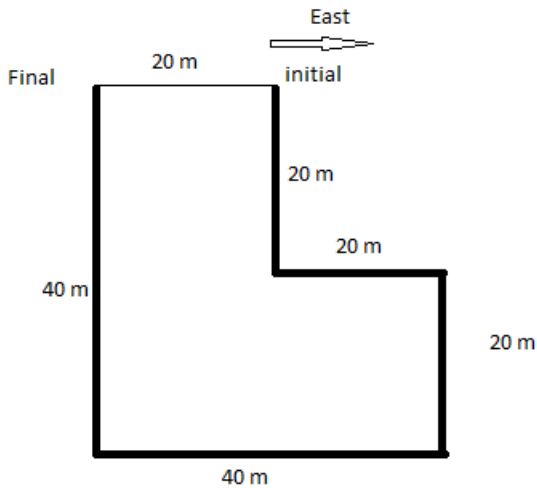
I am facing East. Turning to the right I go 20 metres, then turning to the left I go 20 metres and turning to the right I go 20 metres, then after turning to the right I go 40 metres and then I go 40 metres to the right. In which direction am I from my original position ?

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

Answer: B

Explanation:

The below diagram is self explanatory :



Instructions

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

Question 187

Statements : All women are cats. All cats are rats. Conclusions :

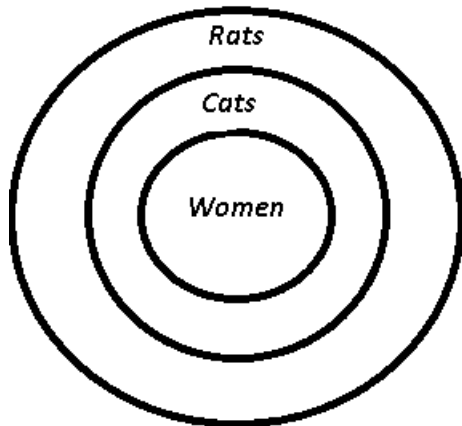
- I. All women are rats.
- II. All rats are women.

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

Answer: B

Explanation:

The venn diagram for above statements is :



Conclusions :

- I. All women are rats = true
- II. All rats are women = false

Thus, only conclusion I follows.

=> Ans - (B)

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Question 188

Statement :

The values of an educated person will differ from that of an uneducated person.

Assumptions :

- I. Education influences an individual's values.
- II. An uneducated person will not have values.

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

Answer: B

Explanation:

The statement mentions that the values of an educated person will be different from that of an uneducated person, i.e. education influences someone's value, hence first conclusion follow.

Also, it does not mean that an uneducated person will not have values.

Thus, only assumption I is implicit.

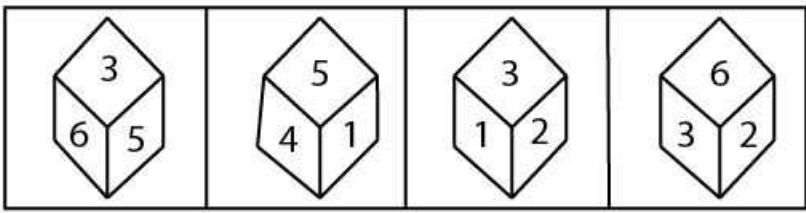
=> Ans - (B)

Instructions

For the following questions answer them individually

Question 189

Four positions of a dice are given below. Identify the number at the bottom when the number on the top is 2.



- A 6
- B 3
- C 4
- D 5

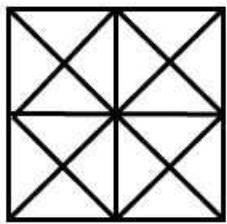
Answer: D

Explanation:

From 1st, 3rd and 4th pictures, clearly, 2,3,5 are adjacent. Hence, 5 is the answer.

Question 190

How many triangles are there in the given figure ?



- A 40 or more
- B 16
- C 18
- D 28

Answer: A

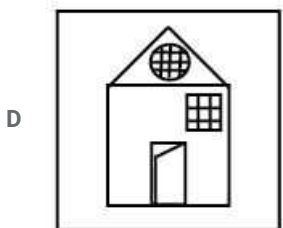
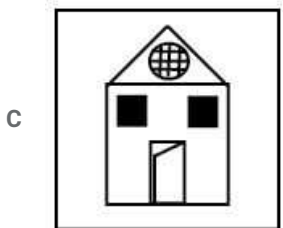
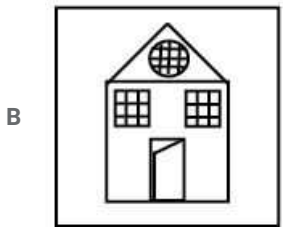
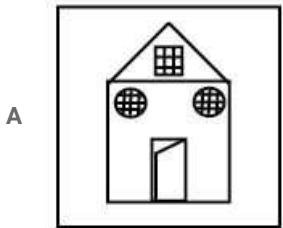
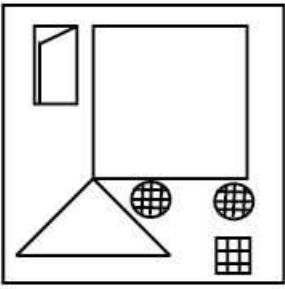
Explanation:

The one smaller square has 8 triangles. So 4 such squares have at least 32 triangles. But with help of diagonals more such triangles can be made. Hence there are more than 40 triangles.(44 to be exact).

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Question 191

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



Answer: A

Explanation:

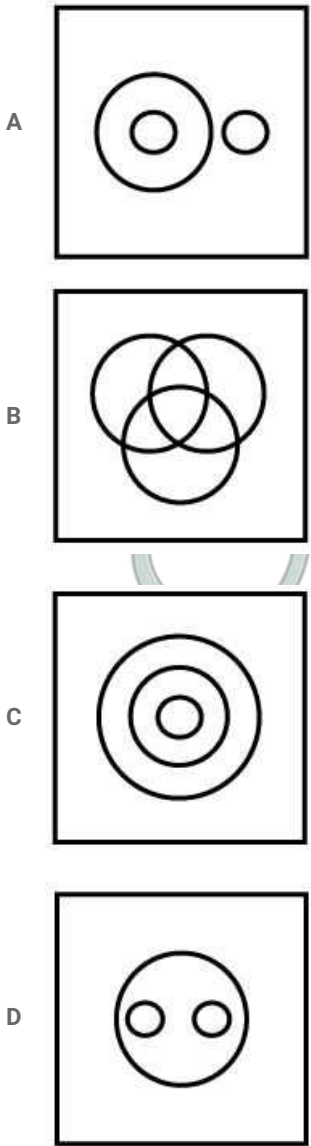
Given question has 2 shaded circles, 1 shaded square, 1 triangle, 1 square and one door shape. Hence, Option A is the answer.

Instructions

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

Question 192

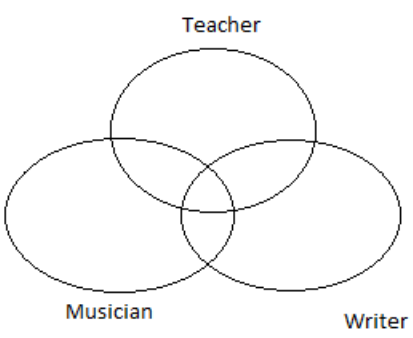
Teacher, Writer, Musician



Answer: B

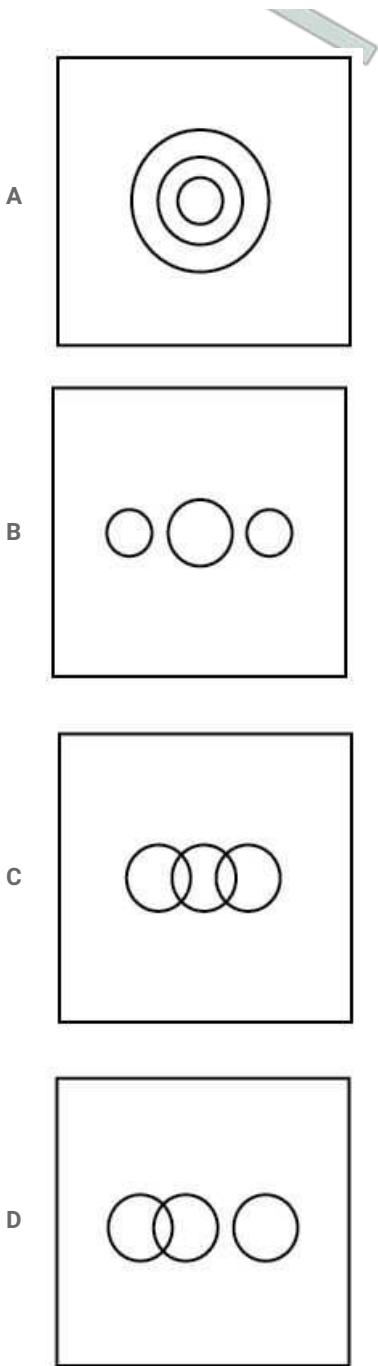
Explanation:

We know that a teacher can be a writer or musician or both
 In the same way a musician can be a teacher or writer or both
 and also a writer can be a teacher or musician or both
 So , the correct diagram is :



Question 193

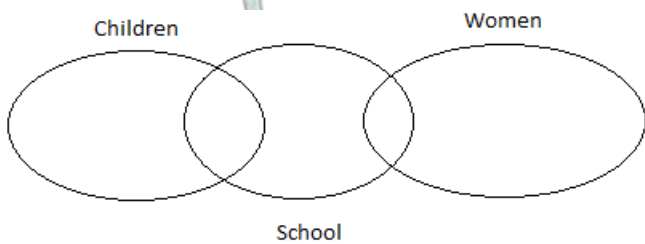
School, Women, Children



Answer: C

Explanation:

In a school we can find women also and children also, but it is not necessary that women should compulsory be in a school so, and women can not be children. Hence the Possible Diagram is :



Hence option C is correct

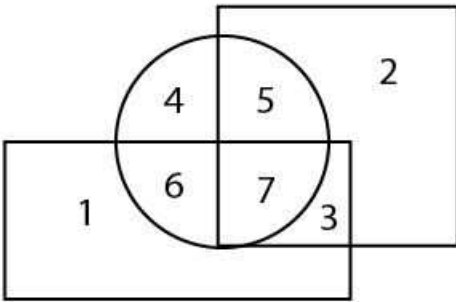
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Instructions

For the following questions answer them individually

Question 194

In the following diagram, Square represents Doctors, Circle represents Players and Rectangle represents Artists. Which number represents those Doctors who are Players as well as Artists ?



- A 7
- B 2
- C 3
- D 6

Answer: A

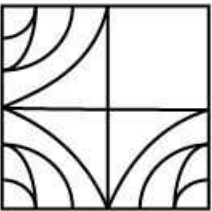
Explanation:

Doctors who are Players as well as Artists must include Square, Circle and Rectangle in common. Hence, 7 is the part.

Instructions

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

Question 195



A



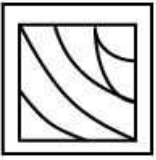
B



C



D

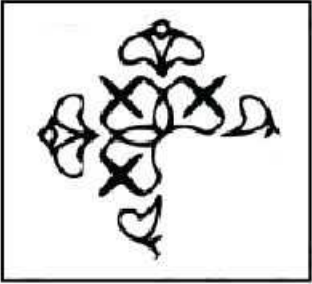


Answer: D

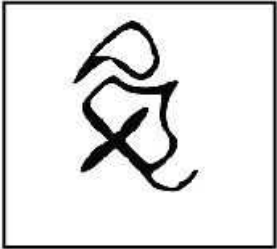
Explanation:

We need a curve line that touches the mid points of the bigger square. Also observing the shape, Option D is the answer

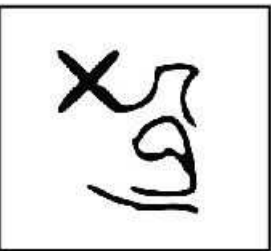
Question 196



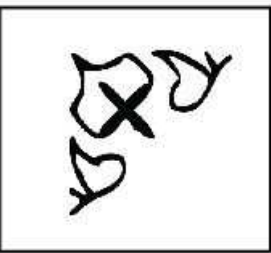
A



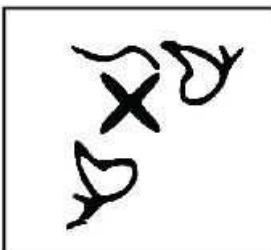
B



C



D



Answer: C

Explanation:

Clearly , only C & D are close enough . Out if these , we need a X mark whose line passes through the image.
Hence, Option C.

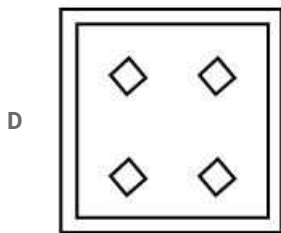
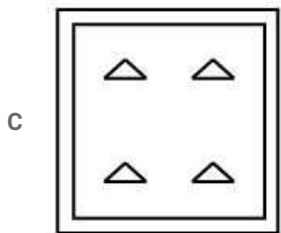
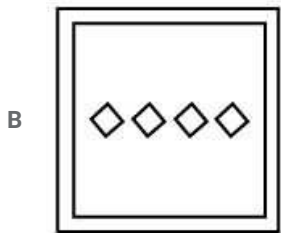
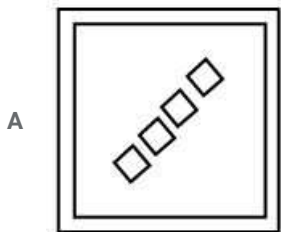
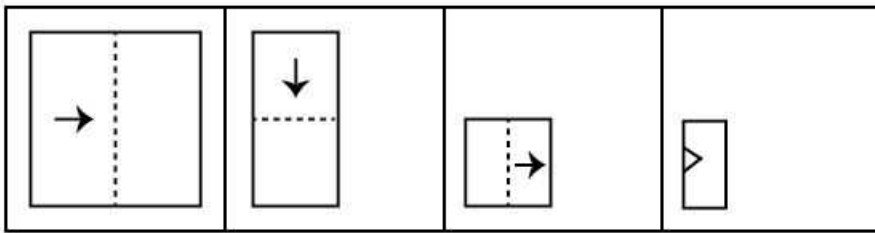
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Instructions

For the following questions answer them individually

Question 197

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.



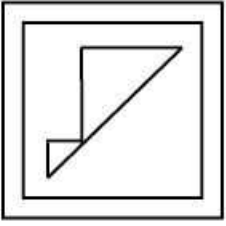
Answer: D

Explanation:

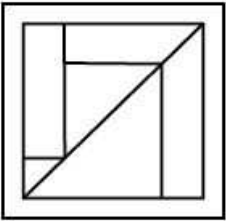
Clearly , from the last two steps we will get a diamond shape . From step two & one , we get the shapes on the upper half and lower half and also on left hand side and right hand side .
Hence. Option D is the answer.

Question 198

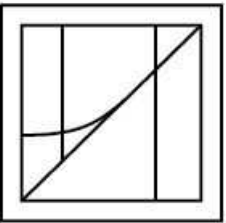
From the given answer figures, select the one in which the question figure is hidden/embedded.



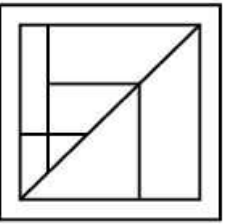
A



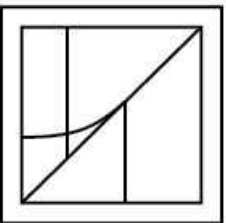
B



C



D



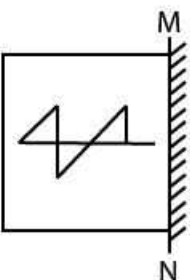
Answer: A

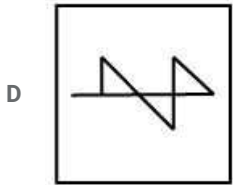
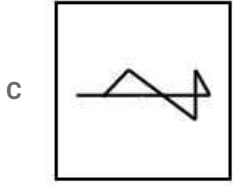
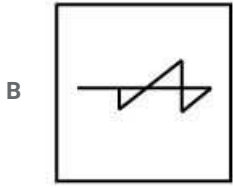
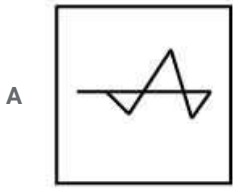
Explanation:

There are no curves in the given question . Hence, only A or C can be the answers.
Now , question has two triangles formed using 5 lines.
Hence, Option A is the answer.

Question 199

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





Answer: D

Explanation:

For a mirror image, flip the image horizontally.
Hence, option D is the answer

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Question 200

A word is represented by only one set of number 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., K can be represented by 00, 24, 32 etc. and L can be represented by 57, 68, 89, etc. Similarly, you have to identify the set for the given word :

MUTE

MATRIX I

	0	1	2	3	4
0	K	N	T	U	S
1	S	K	U	T	N
2	T	U	N	S	K
3	U	S	K	N	T
4	N	T	S	K	U

MATRIX II

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

- A 66, 30, 02, 68
- B 88, 21, 03, 76
- C 66, 03, 20, 95
- D 99, 20, 13, 95

Answer: C

Explanation:

WE need the code for MUTE ,
M has to be 55 or 66 or 77 or 88 or 99
U has to be 30 or 21 or 12 or 03
T has to be 02 or 13 or 20 or 34 or 41
E has to be 58 or 69 or 76 or 95
Hence, it is Option (C).

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