



## SSC CGL 2014 Tier 1 27 April shift 7

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## General Awareness

### Instructions

For the following questions answer them individually

#### Question 1

The type of fruit obtained from a multicarpillary, apocarpous gynoecium is:

- A composite
- B aggregate
- C simple
- D multiple

Answer: B

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#### Question 2

The threshold frequency is the frequency below which :

- A photo current increases with voltage
- B photo current decreases with voltage
- C photo electric emission is not possible
- D photo current is constant

Answer: C

#### Question 3

Sir C. V. Raman was awarded Nobel Prize for his work on:

- A Light Scattering
- B Radio activity
- C Cryogenics
- D Sonometer

Answer: A

#### Question 4

Tesla is a unit of magnetic :

- A flux
- B induction
- C moment
- D field

Answer: D

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### Question 5

The percentage of carbon in cast iron is :

- A 0.01 to 0.25
- B 0.5 to 1.5
- C 6 to 8
- D 3 to 5

Answer: D

### Question 6

The damage of the human body due to radiation X-rays or g- rays etc,) is measured in :

- A Reins
- B Roentgen
- C Curie
- D Rads

Answer: A

### Question 7

The Minimum Support Price for food grains was introduced in the year

- A 1944
- B 1964
- C 1974
- D 1954

Answer: C

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### Question 8

Total assembly segments in Delhi are :

- A 50
- B 60
- C 70
- D 40

Answer: C

**Question 9**

**Transition ions absorb light in :**

- A infrared region
- B ultraviolet region
- C microwave region
- D visible region

**Answer: D**

**Question 10**

**Virtually treeless, sparse vegetation is found in :**

- A Taiga
- B Alpine
- C Tundra
- D Chapparal

**Answer: C**

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**Question 11**

**Flywheel is an important part of a steam engine' because it :**

- A accelerates the speed of the engine
- B helps the engine in keeping the speed uniform
- C decreases the moment of inertia
- D gives strength to the engine

**Answer: B**

**Question 12**

**Soil factors are otherwise known as :**

- A Edaphic factors
- B Biotic factors
- C Physiographic factors
- D Climatic factors

**Answer: A**

**Question 13**

**Who benefits the most during the inflationary period ?**

- A corporate servants
- B creditors
- C entrepreneurs
- D government servants

**Answer: C**

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### Question 14

Which of the following does not have a Stupa ?

- A Ranchi
- B Sanchi
- C Barhut
- D Dhamek

**Answer: A**

### Question 15

The plants, which grow under water stress conditions of deserts are :

- A Epiphytes
- B Xerophytes
- C Heliophytes
- D Sciophytes

**Answer: B**

### Question 16

Coupling and repulsion are the two states of :

- A linkage
- B chiasma
- C mutation
- D crossing over

**Answer: A**

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### Question 17

The freezing point of fresh water is

- A 4°C
- B 3°C
- C 5°C
- D 0°C

**Answer: D**

**Question 18**

**Stamens are fused with each other by their anthers and also with the petals in :**

- A Leguminosae
- B Liliaceae
- C Compositae
- D Euphorbiaceae

**Answer: C**

**Question 19**

**Deficiency of iron causes :**

- A Goitre
- B Polio
- C Rickets
- D Scurvy

**Answer: B**

**General Science Notes for SSC CGL**

**Question 20**

**Which of the following books is not written by Jawaharlal Nehru ?**

- A Discovery of India
- B My Experiments with Truth
- C An Autobiography
- D Glimpses of World History

**Answer: B**

**Question 21**

**'Democratic Centralism' is an important feature of a :**

- A Communist state
- B Democratic state

- C Totalitarian' state
- D Socialist state

**Answer: A**

**Question 22**

**The Constitution of India, describes India as :**

- A A Federation
- B A quasi-federal
- C Unitary
- D Union of states

**Answer: D**

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**Question 23**

**'Shadow Cabinet is the feature of Administrative system of :**

- A Britain
- B USA
- C France
- D Japan

**Answer: A**

**Question 24**

**Which National Highway is called Shershah Sun Marg ?**

- A National Highway No. 3
- B National Highway No. 8
- C National Highway No. 7
- D National Highway No. 1

**Answer: A**

**Question 25**

**Which of the followings is not correct ?**

- A NMA-National Monuments Authority
- B PIL-Public Interest Litigation
- C NOT-National Growth Tribunal
- D MSP-Minimum Support Price

**Answer: C**

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### Question 26

An increase in the quantity supplied suggests :

- A a leftward shift of the supply curve
- B a movement up along the supply curve
- C a movement down along the supply curve
- D a rightward shift of the supply curve

Answer: B

### Question 27

Who was the Delhi Sultan to impose Jizya even on the Brahmins ?

- A Ala-ud-din Khilji
- B Firuz Tughluq
- C Muhammad Tughluq
- D Balban

Answer: B

### Question 28

Dactylogram is related with :

- A teleprinter
- B perumbulator
- C cereals
- D finger print

Answer: D

### Question 29

Which body is constituted by the President of India to advise on the decision of Central Resources between the centre and the state ?

- A Tariff Commission
- B Finance Commission
- C Planning Commission
- D Taxation Enquiry Commission

Answer: B

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**Question 30**

"Ryder Cup" is awarded to the players of :

- A Baseball
- B Basketball
- C Cards
- D Golf

**Answer: D**

**Question 31**

The site of birth (nativity) of Gautam Buddha is marked by :

- A a monastery
- B a "Rummindei Pillar" of Ashok Maurya
- C a statue
- D a Peepal Tree

**Answer: B**

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**Question 32**

Preparation of butter, ghee by a household for their own use is a part of :

- A own-account production
- B household capital formation
- C industrial production
- D consumption

**Answer: D**

**Question 33**

Potato was introduced to Europe by :

- A Portuguese
- B Germans
- C Spanish
- D Dutch

**Answer: C**

**Question 34**

The current spell of cold wave in the US has been a fall out of the :

- A polar vortex
- B biodiversity and habitats
- C climate and energy
- D political administration

Answer: A

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### Question 35

"Krishi Karman Award" 201213 for all time record in food grain production was given to :

- A Madhya Pradesh
- B Haryana
- C Tamil Nadu
- D Odisha

Answer: D

### Question 36

Consumer Protection Act 1986, was amended in :

- A 1992
- B 1993
- C 1994
- D 1991

Answer: C

### Question 37

The compound that has the least value for octane number is :

- A 2-methyl heptane
- B Iso-octane
- C 2,2-dimethyl hexane
- D n-heptane

Answer: D

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### Question 38

The unit of noise pollution (level) is :

- A decibel
- B decimal
- C PPM
- D None of these

Answer: A

**Question 39**

Which one of the following is used as secondary storage system in computer ?

- A RAM
- B Floppy
- C EPROM
- D ROM

Answer: B

**Question 40**

Where does the cabbage store food ?

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

Answer: A

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**Question 41**

Who among the following is the founder of the "Azad Hind Fauj" ?

- A Lala Har Dayal
- B Subash Chandra Bose
- C Vir Savarkar
- D Chandrashekhhar Azad

Answer: B

**Question 42**

The production, marketing, storage, advertising and consumption of smokeless tobacco is banned in :

- A Assam
- B Arunachal Pradesh

C Nagaland

D Meghalaya

**Answer: A**

**Question 43**

**The pair of compounds used as anaesthetic in medicines :**

A Ether, Ammonia

B Nitrous oxide, Chloroform

C Chloroform, Nitrogen dioxide

D Nitrogen dioxide, ether

**Answer: B**

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**Question 44**

**In relation to the State Government, local government exercises :**

A Co-ordinate Authority

B Delegated Authority

C Superior Authority

D Independent Authority

**Answer: B**

**Question 45**

**Study of organisms in relation to their environment is called :**

A Ecology

B Zoology

C Entomology

D Palynology

**Answer: A**

**Question 46**

**Who is known as the Father of 'Indian Unrest' ?**

A Bal Gangadhar Tilak

B Lalalajpat Rai

C Aurobindo Ghosh

D Bipin Chandrapal

**Answer: A**

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### Question 47

Obsidian, Andesite, Gabbro and Perodite are :

- A Metamorphic rocks
- B Intrusive rocks
- C Sedimentary rocks
- D Extrusive rocks

Answer: D

### Question 48

Who said that "Where there is no Law there will not be Liberty" ?

- A Karl Marx
- B Plato
- C Machiavelli
- D John Locke

Answer: D

### Question 49

The UNIX operating system is suitable for :

- A Multi user
- B Real-Time Processing
- C Distributed Processing
- D Single user

Answer: A

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### Question 50

Section of IPC, which deals with LGBT (Lesbian, Gay, Bisexual and Transgender) community is :

- A 377
- B 376
- C 370
- D None of these

Answer: A

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## English

### Instructions

In the following questions, some parts of the sentences have errors and some are correct. Find out which part of a sentence has an error. The number of that part is your answer. If a sentence is free from error, then your answer is d: i.e. No error.

### Question 51

After tasting both / (a) John prefers (b) / tea than coffee. / (c) No error (d)

- A After tasting both
- B John prefers
- C tea than coffee
- D No error

Answer: C

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### Question 52

I loved / (a) the drawings / (b) they were so real. / (c) No error (d)

- A I loved
- B the drawings
- C they were so real
- D No error

Answer: C

### Question 53

Suddenly they saw a car corning / (a) at a break neck speed. / An old man were crossing the road at the zebra crossing. / c: No error (d)

- A Suddenly they saw a car corning
- B at a break neck speed
- C An old man were crossing the road at the zebra crossing
- D No error

Answer: C

### Question 54

I sprained my ankle / (a) when I was / (b) playing basketball. / (c) No error (d)

- A I sprained my ankle
- B when I was
- C playing basketball

D No error

Answer: D

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### Question 55

It is time/(a) we should accept all our people as equals/ (b) and as partners in the task of building a strong and united nation./ (c) No error d:

A It is time

B we should accept all our people as equals

C and as partners in the task of building a strong and united nation

D No error

Answer: B

### Instructions

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

### Question 56

Leila said the new restaurant was nothing to write about. She thought it was .....

A just average

B really terrible

C splendid

D excellent

Answer: A

### Question 57

My Nigerian friend, Fela is having trouble finding work here in London, but he says if push comes to shove he can always .....

A go to jail

B win the lottery

C end of the journey that is life

D go back to Nigeria

Answer: D

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### Question 58

If you say to someone "You're so full of yourself " they'll probably feel.....

- A upset
- B pleased
- C calm
- D proud

Answer: D

**Question 59**

The archer missed the..... by an inch.

- A score
- B point
- C blow
- D aim

Answer: D

**Question 60**

Bob and Jane decided to tie the knot because

- A they loved one another
- B they needed to save money
- C they wanted to make a long rope
- D it had come undone

Answer: A

## General Science Notes for SSC CGL

### Instructions

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

**Question 61**

**CREDIBLE**

- A Charming
- B Serious
- C Believable
- D Worthy

Answer: C

**Question 62**

**EXTRICATE**



- A Free
- B Tie
- C Complicate
- D Pull

Answer: A

**Question 63**

**OBSTREPEROUS**

- A Unruly
- B Lazy
- C Awkward
- D Sullen

Answer: A

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**Instructions**

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

**Question 64**

**ACQUIT**

- A Despair
- B Mild
- C Smart
- D Condemn

Answer: D

**Question 65**

**DISSENT**

- A Discord
- B Disagreement
- C Unacceptable
- D Agreement

Answer: D

**Question 66**

**GROUP**

- A Singular
- B Individual
- C Alone
- D Solitary

Answer: B

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### Instructions

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

#### Question 67

**After his business failed, he had to work very hard to keep the wolf from the door.**

- A keep away extreme poverty
- B earn an honest living
- C regain his lost position
- D defend from enemies

Answer: A

#### Question 68

**The mention of her former husband's name still makes Rita foam at the mouth.**

- A angry
- B vomit
- C shy
- D fall sick

Answer: A

#### Question 69

**We must husband our resources against hard times.**

- A save
- B support
- C sing
- D concede

Answer: A

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**Question 70**

The newly elected Chief Minister has promised to bring about changes in the state.

- A produce
- B make
- C carry
- D cause to happen

**Answer: D**

**Question 71**

He gave vent to his pleasure with a smile.

- A shared
- B allowed
- C expressed
- D enjoyed

**Answer: C**

**Instructions**

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

**Question 72**

Then with all his loot he sailed **inwards** Scotland's shore.

- A onwards
- B towards
- C forward
- D No improvement

**Answer: B**

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**Question 73**

Can you please **give me** some leave?

- A grant for me
- B grant me
- C grant from me
- D No improvement

**Answer: B**

**Question 74**

The office is soon to be closed.

- A just to
- B about to
- C where to
- D No improvement

**Answer: B**

**Question 75**

The teacher was very proficient in his subject.

- A expert
- B well versed
- C proficient
- D No improvement

**Answer: B**

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**Question 76**

He found a wooden chair that has broken in the room.

- A wooden and broken chair
- B broken wooden chair
- C broken and wooden chair
- D No improvement

**Answer: B**

**Question 77**

The robbers fled before the police came.

- A arrived
- B were coming
- C had come
- D No improvement

**Answer: A**

**Question 78**

The hosts were taken aback when many guests who had been invited did not turn up for the party.

- A had been invited
- B had invited
- C was invited
- D No improvement

**Answer: D**

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### Question 79

The master aimed a blow to Oliver's head with the ladle.

- A a throw at
- B a punch in
- C a blow at
- D No improvement

**Answer: C**

### Question 80

The athletes who have won prizes are being honoured.

- A The prize winning athletes
- B The athletes who are given prizes
- C The athletes who are winning prizes
- D No improvement

**Answer: D**

### Question 81

Motor cars carry people from one place to another.

- A from place to place
- B about the place
- C for travel
- 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/ sentence.

**Question 82**

An extract from a book of writing

- A Excerpt
- B Review
- C Footnote
- D Preface

**Answer: A**

**Question 83**

One living on vegetables

- A vegetarian
- B herbivore
- C carnivore
- D barbarian

**Answer: A**

**Question 84**

A person who supports or speaks in favour of something

- A advocate
- B assistance
- C adviser
- D volunteer

**Answer: A**

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**Question 85**

The firing of many guns at the same time to mark an occasion

- A fusillade
- B salvo
- C attack
- D volley

**Answer: A**

**Question 86**

A word that reads the same backwards as forwards

- A acrostic
- B homophone
- C acronym
- D palindrome

**Answer: D**

**Question 87**

**A person who is self-centred**

- A egoist
- B masochist
- C narcissist
- D eccentric

**Answer: A**

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**Question 88**

**A principle or standard by which anything is or can be judged**

- A manifesto
- B copyright
- C epitome
- D criterion

**Answer: D**

**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 Possession
- B Possesian
- C Posseseon
- D Posessian

**Answer: A**

**Question 90**

- A Immakulate

- B Immaculate
- C Immaculete
- D Imakulate

Answer: B

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### Instructions

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

#### PASSAGE -I

We are living in the Age of Science. Everyday new inventions are being made for the good of humanity. The scientific inventions began after the Industrial Revolution of 1789. Within these 200 years, science has made a wonderful progress. The aeroplane is one of the most important inventions of science during the Modern Age. It is the fastest means of transport know so far. An aeroplane resembles a flying bird in shape. Inside there are seats for the passengers and a cabin for the pilot. This cabin is called a cockpit. It has an engine that is worked by petrol. It is all made up of metal and can fly at a very high speed. Before taking off it runs on the runway for some distance to gather speed. Then it suddenly hops up the earth and takes off.

#### Question 91

The scientific invention began after the Industrial Revolution of.....

- A 1789
- B 1889
- C 1879
- D 1779

Answer: A

#### Question 92

The cabin for the pilot is called a .....

- A cubicle
- B cube
- C cockpit
- D chamber

Answer: C

#### Question 93

An aeroplane has an engine that is worked by

- A diesel
- B petrol
- C steam
- D gas

Answer: B



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### Question 94

The..... is one of the most important inventions of science during the Modern Age.

- A ship
- B aeroplane
- C motor vehicle
- D train

Answer: B

### Question 95

We are living in the .....

- A Age of inventions
- B Age of industrialisation
- C Modern Age
- D Age of science

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.

#### PASSAGE-II

The National Highways Network of India measures over 70,934 km as of 2010, including over 1,000 km of limited-access expressways. Out of 71,000 km of National Highways 15,000 plus km are 4 or 6 lanes and remaining 50,000 km are 2 lanes. The National Highways Authority of India (NHAI) is the nodal agency responsible for building, upgrading and maintaining most of the national highways network. The National Highways Development Project (NHDP) is a major effort to expand and upgrade the network of highways. NHAI often uses a public-private partnership model for highway development, maintenance and toll-collection. National highways constituted about 2% of all the roads in India, but carried about 40% of the total road traffic as of 2010. The majority of existing national highways are two-lane roads (one lane in each direction), though much of this is being expanded to four-lanes, and some to six or eight lanes. Some sections of the network are toll roads. Over 30,000 km of new highways are planned or under construction as part of the NHDP, as of 2011. This includes over 2,600 km of expressways currently under construction.

### Question 96

What is the current measurement of expressways under construction in India ?

- A 15,000 km
- B 30,000 km
- C 2,600 km
- D 1,000 km

Answer: C

Question 97

What is the responsibility of the NHAI ?

- A planning of National Highways
- B building, upgrading and maintaining of National Highways
- C control of National Highways
- D expansion of National Highways

Answer: B

Question 98

What is the measurement of two-lane National Highways of India ?

- A 15,000 km
- B 61,000 km
- C 50,000 km
- D 71,000 km

Answer: C

Question 99

What percentage of roads in India are National Highways

- A 2%
- B 30%
- C 4%
- D 40%

Answer: A

## SSC CGL Important Questions PDF

Question 100

The majority of National Highways in India have :

- A two-lanes
- B six-lanes
- C eight-lanes
- D four-lanes

Answer: A

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**Instructions**

For the following questions answer them individually

**Question 101**

If the side of a square is reduced by 50%, its area will be reduced by

- A 75%
- B 80%
- C 60%
- D 50%

**Answer:** A

**Explanation:**

Let the side of square be 10 units

=> Original area =  $10 \times 10 = 100$  sq. units

Side is reduced by 50%

=> New side =  $10 - \left(\frac{50}{100} \times 10\right) = 10 - 5$   
= 5 units

=> New area =  $5 \times 5 = 25$  sq. units

=> % reduction in area =  $\frac{100 - 25}{100} \times 100 = 75\%$

**General Science Notes for SSC CGL**

**Question 102**

Two triangles ABC and PQR are congruent. If the area of A ABC is 60 sq. cm, then area of A PQR will be

- A 60 sq.cm
- B 30 sq.cm
- C 15 sq.cm
- D 120 sq.cm

**Answer:** A

**Explanation:**

Two congruent triangles are always equal in area.

$$\therefore \triangle ABC \cong \triangle PQR$$

=>  $\text{area}(\triangle ABC) = \text{area}(\triangle PQR) = 60 \text{ cm}^2$

**Question 103**

The least number which must be added to 1728 to make it a perfect square is .....

- A 36
- B 32
- C 38

D 30

Answer: A

Explanation:

We know that,  $41 * 41 = 1681$

and  $42 * 42 = 1764$

So, the least number to be added in 1728 to make it a perfect square =  $1764 - 1728$

$$= 36$$

Question 104

For a triangle ABC, D and E are two points on AB and AC such that  $AD = \frac{1}{4} AB$ ,  $AE = \frac{1}{4} AC$ . If  $BC = 12$  cm, then DE is

A 5 cm

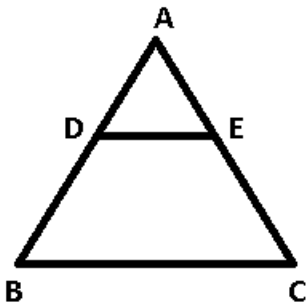
B 4 cm

C 3 cm

D 6 cm

Answer: C

Explanation:



Since, it is given that

$$\Rightarrow \frac{AD}{AB} = \frac{AE}{AC} = \frac{1}{4}$$

$$\Rightarrow \frac{AD}{AE} = \frac{AB}{AC}$$

$$\Rightarrow \triangle ADE \sim \triangle ABC$$

$$\therefore DE = \frac{1}{4} BC$$

$$= \frac{1}{4} * 12 = 3cm$$

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Question 105

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

A  $45^\circ$

B 600

C  $90^\circ$

D  $30^\circ$

Answer: A

**Explanation:**

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

$$\frac{\sin \theta}{\cos \theta} + \frac{\cos \theta}{\sin \theta} = 2$$

$$\sin^2 \theta + \cos^2 \theta = 2 \sin \theta \cos \theta$$

$$\sin 2\theta = 1$$

it implies,  $2\theta = 90$

$$\theta = 45$$

**Question 106**

The term to be added to  $121a^2 + 64b^2$  to make a perfect square is

A 176 ab

B 276 a b

C 178 ab

D 188 b a

Answer: A

**Explanation:**

$$121a^2 + 64b^2$$

$$= (11a)^2 + (8b)^2$$

$$\therefore (x + y)^2 = x^2 + y^2 + 2xy$$

$$\therefore \text{Required expression} = 2 * 11a * 8b$$

$$= 176ab$$

**Question 107**

A can do a piece of work in 6 days, B in 10 days and C in 15 days. They jointly complete the work and earn 300. The sum of their wages for 2 days is

A 180

B 200

C 160

D 120

Answer: B

**Explanation:**

It is given that A can do a piece of work in 6 days, B in 10 days and C in 15 days

Let assume that the amount of work is = 30 units

So

A's 1 day work = 5 units

B's 1 day work = 3 units

C's 1 day work = 2 units

If A, B, C work together than 1 day work = 10 units

and hence number of days required to complete the work when A+B+C work together =  $\frac{30}{10} = 3$  days

It is mentioned that for whole work, A+B+C is getting paid = Rs 300

So when for 3 days Rs 300 is being paid then for 2 days = Rs 200 should be the paid amount

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### Question 108

A sum of Rs 76 is divided among A, B and C in such a way that A gets 7 more than that what B gets and B gets 6 more than what C gets. The ratio of their shares is

A 19 : 24 : 33

B 32 : 25 : 19

C 32 : 24 : 20

D 19 : 25 : 33

Answer: B

#### Explanation:

let the amount with C be Rs y

so, amount with B = y + 6

and amount with A = y + 13

and it is given that total amount is 76, So

$$y + y + 6 + y + 13 = 76$$

$$y = 19$$

Hence A:B:C = 32:25:19

### Question 109

If the opposite sides of a quadrilateral are equal and also its diagonals are equal, then each of the angles of the quadrilateral is

A 90°

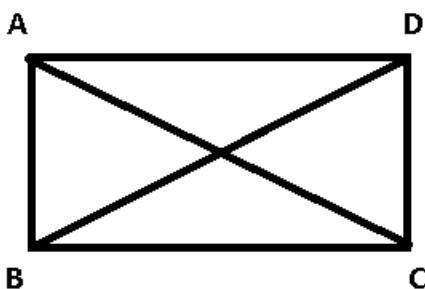
B 120°

C 100°

D 60°

Answer: A

#### Explanation:



$$AB = CD,$$

$$BC = AD,$$

AC = BD

It will be a rectangle and each angle will be a right angle i.e. =  $90^\circ$

**Question 110**

If  $\cos \pi x = x^2 - x + \frac{5}{4}$  the value of x will be

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

**Answer:** D

**Explanation:**

As we can see, the least value of the expression is  $\frac{5}{4} = 1.25 > 1$ .

Cos value cannot be greater than 1. If it is greater than 1, it means that adjacent side > hypotenuse. Hence, hypotenuse will not remain the hypotenuse anymore. Hence, option D is the right answer.

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**Question 111**

A tank 40 m long, 30 m broad and 12 m deep is dug in a field 1000 m long and 30 m wide. By how much will the level of the field rise if the earth dug out of the tank is evenly spread over the field ?

- A 2 metre
- B 1.2 metre
- C 0.5 metre
- D 5 metre

**Answer:** C

**Explanation:**

Length of tank = 40 m

breadth of tank = 30 m

height of tank = 12 m

volume of soil dug out =  $L \times B \times H = 40 \times 30 \times 12 = 14400 \text{ m}^3$

Area of tank =  $40 \times 30 = 1200 \text{ m}^2$

Area of field =  $1000 \times 30 = 30000 \text{ m}^2$

Reamaining area =  $30000 - 1200 = 28800 \text{ m}^2$

Height of soil spread if dug out volume of soil is spread on the remaining area =  $\frac{14400}{28800} = 0.5 \text{ m}$

**Question 112**

In a triangle, if orthocentre, circumcentre, incentre and centroid coincide, then the triangle must be

- A obtuse angled
- B isosceles
- C equilateral

D right-angled

Answer: C

Explanation:

It is a property of an equilateral triangle that the orthocentre, circumcentre, incentre and centroid always coincides in an equilateral triangle.

Question 113

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

A 12

B 14

C 16

D 10

E Non of These

Answer: B

Explanation:

$$a = 2 + \sqrt{3}$$

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

here,

$$a = 2 + \sqrt{3}$$

$$\frac{1}{a} = \frac{1}{2 + \sqrt{3}} \times \frac{2 - \sqrt{3}}{2 - \sqrt{3}} = 2 - \sqrt{3}$$

$$a + \frac{1}{a} = 2 + \sqrt{3} + 2 - \sqrt{3}$$

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

$$\text{So, } (a + \frac{1}{a})^2 - 2 = 14$$

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Question 114

For what value (s) of k the expression  $p + \frac{1}{4}\sqrt{p} + k^2$  is a perfect square ?

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

B  $\pm \frac{1}{4}$

C  $\pm \frac{1}{8}$

D  $\pm \frac{1}{2}$

Answer: C

Explanation:



$$p + \frac{1}{4}\sqrt{p} + k^2$$

$$= (\sqrt{p})^2 + 2 * \sqrt{p} * \frac{1}{8} + (\frac{1}{8})^2 - (\frac{1}{8})^2 + k^2$$

$$\Rightarrow k^2 = (\frac{1}{8})^2$$

$$\Rightarrow k = \pm \frac{1}{8}$$

**Question 115**

If 15% of x is same as 20 % of y then x: y is

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

**Answer: A**

**Explanation:**

$$15\% \text{ of } x = \frac{15}{100} * x = \frac{3x}{20}$$

$$20\% \text{ of } y = \frac{20}{100} * y = \frac{y}{5}$$

Now, both are equal

$$\Rightarrow \frac{3x}{20} = \frac{y}{5}$$

$$\Rightarrow y = 5 * \frac{3x}{20}$$

$$= 4 : 3$$

**Question 116**

If  $\frac{b-c}{a} + \frac{a+c}{b} + \frac{a-b}{c} = 1$  and  $a - b + c \neq 0$  then which one of the following relations is true ?

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

**Answer: C**

**Explanation:**

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

$$\Rightarrow \frac{b-c}{a} + \frac{a-b}{c} + \frac{a+c}{b} - 1 = 0$$

$$\Rightarrow \frac{b-c}{a} + \frac{a-b}{c} + \frac{a+c-b}{c} = 0$$

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

$$\Rightarrow \frac{c^2-bc+ab-a^2}{ac} = \frac{a+c-b}{b}$$

$$\Rightarrow \frac{(c^2-a^2)-(bc-ab)}{ac} = \frac{a+c-b}{b}$$

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

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

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

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

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

## SSC CGL Free Online Coaching

### Question 117

A train crosses a platform in 30 seconds travelling with a speed of 60 km/h. If the length of the train be 200 metres, then the length (in metres) of the platform is

- A 400
- B 300
- C 200
- D 500

Answer: B

#### Explanation:

Let the length of train and speed of train be L meter and S m/sec . let the length of platform be P meter

It is given that L = 200 m

Time (T) = 30sec

$$S = 60 \times \frac{5}{18} = \frac{50}{3} \text{ m/sec}$$

using ,

$$(L+P) = S \times T$$

$$(200 + P) = \frac{50}{3} \times 30$$

$$P = 300 \text{ m}$$

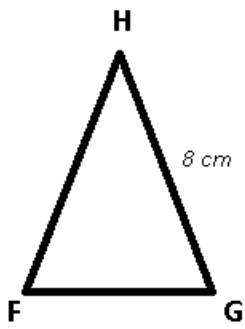
### Question 118

If  $\triangle FGH$  is isosceles and  $FG < 3 \text{ cm}$ ,  $GH = 8 \text{ cm}$ , then of the following, the true relation is.

- A  $GH = FH$
- B  $GF = GH$
- C  $FH > GH$
- D  $GH < GF$

Answer: A

#### Explanation:



Given :  $GH = 8\text{cm}$  and  $FG < 3\text{ cm}$

Also,  $\triangle FGH$  is isosceles.

Solution : Since,  $FG < 3$ ,  $\Rightarrow$  It can only be either 1 or 2.

case 1 : If  $FG = 1\text{ cm}$

$\therefore$  Sum of any two sides of a triangle is always greater than the third side.

Since it is an isosceles triangle, if  $FG = FH = 1$

The, above property will be contradicted as then,  $FH + FG$  will not be greater than  $HG(8)$ .

$\Rightarrow$  Hence, the two equal sides are  $GH$  and  $FH$

case 2 : If  $FG = 2\text{ cm}$

As mentioned above, here also the two possible equal sides are  $GH$  and  $FH$

$\Rightarrow GH = FH$

**Question 119**

The numerical value of  $1 + \frac{1}{\cot^2 63^\circ} - \sec^2 27^\circ + \frac{1}{\sin^2 63^\circ} - \text{cosec}^2 27^\circ$  is

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

**Answer: D**

**Explanation:**

We need to find the value of  $1 + \frac{1}{\cot^2 63^\circ} - \sec^2 27^\circ + \frac{1}{\sin^2 63^\circ} - \text{cosec}^2 27^\circ$

we know that ,

$$\frac{1}{\cot^2 \theta} = \tan^2 \theta \dots \dots \dots (1)$$

$$\frac{1}{\sin^2 \theta} = \text{cosec}^2 \theta \dots \dots \dots (2)$$

$$\text{and } 1 + \tan^2 \theta = \sec^2 \theta \dots \dots \dots (3)$$

Using equations 1, 2 and 3

$$\begin{aligned} &= 1 + \frac{1}{\cot^2 63^\circ} - \sec^2 27^\circ + \frac{1}{\sin^2 63^\circ} - \text{cosec}^2 27^\circ \\ &= 1 + \tan^2 63^\circ - \sec^2 27^\circ + \text{cosec}^2 63^\circ - \text{cosec}^2 27^\circ \\ &= \sec^2 63^\circ - \sec^2 27^\circ + \text{cosec}^2 63^\circ - \text{cosec}^2 27^\circ \\ &= \sec^2 (90 - 27) - \sec^2 27^\circ + \text{cosec}^2 (90 - 27) - \text{cosec}^2 27^\circ \\ &= \text{cosec}^2 27^\circ - \sec^2 27^\circ + \sec^2 27^\circ - \text{cosec}^2 27^\circ \\ &= 0 \end{aligned}$$

## SSC CHSL Previous Question papers (download pdf)

### Question 120

It 10 men or 20 women or 40 children can do a piece of work in 7 months, then 5 men, 5 women and 5 children together can do half of the work in how many months :

- A 5
- B 8
- C 3
- D 4

Answer: D

### Explanation:

Assume that every month has 30 days , so in 7 months =  $7 \times 30 = 210$  days

Let assume the amount of work be 840 units (which is LCM of 10,20,40, 210)

It is given that 10 men can do 840 units of work in = 210 days

then 1 men's 1 day work =  $\frac{2}{5}$  units

5 men's 1 day work =  $\frac{2}{5}$  units  $\times 5 = 2$  units

20 women can do 840 units of work in = 210 days

1 women's 1 day work =  $\frac{1}{5}$  units

5 women's 1 day work =  $\frac{1}{5}$  units  $\times 5 = 1$  units

40 children's can do 840 units of work in = 210 days

1 children's 1 day work =  $\frac{1}{10}$  units

5 children's 1 day work =  $\frac{1}{10}$  units  $\times 5 = 0.5$  units

Now , (5 men + 5women + 5 children) 's 1 day work =  $2 + 1 + 0.5 = 3.5$  units

So, number of days required by (5 men + 5women + 5 children) to complete  $\frac{840}{2} = 420$  units of work =  $\frac{420}{3.5} = 120$  days

=  $\frac{120}{30} = 4$  months

### Question 121

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

- A  $10\sqrt{2}$
- B  $14\sqrt{2}$
- C  $22\sqrt{2}$
- D  $8\sqrt{2}$

Answer: C

### Explanation:

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

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

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

$$\text{Now, } x - \frac{1}{x} = \sqrt{3} + \sqrt{2} - \sqrt{3} + \sqrt{2} \\ = 2\sqrt{2}$$

$$\text{Using, } \left(x - \frac{1}{x}\right)^3 = x^3 - \frac{1}{x^3} - 3\left(x - \frac{1}{x}\right)$$

$$\Rightarrow x^3 - \frac{1}{x^3} = (2\sqrt{2})^3 + 3(2\sqrt{2}) \\ = 16\sqrt{2} + 6\sqrt{2} = 22\sqrt{2}$$

#### Question 122

What is the product of the roots of the equation  $x^2 - \sqrt{3} = 0$ ?

A  $+\sqrt{3}$

B  $\sqrt{3}i$

C  $-\sqrt{3}i$

D  $-\sqrt{3}$

Answer: D

#### Explanation:

For an equation  $ax^2 + bx + c = 0$ ,

the product of the roots is given by  $-\frac{c}{a}$

Comparing,  $x^2 - \sqrt{3} = 0$  from above equation,

$$\text{product of roots} = -\frac{-\sqrt{3}}{1} = -\sqrt{3}$$

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#### Question 123

If  $x = \frac{\cos \theta}{1 - \sin \theta}$ , then  $\frac{\cos \theta}{1 + \sin \theta}$  is equal to

A  $x - 1$

B  $\frac{1}{x}$

C  $\frac{1}{x+1}$

D  $\frac{1}{1-x}$

Answer: B

#### Explanation:

$$x = \frac{\cos \theta}{1 - \sin \theta} = \frac{\cos \theta(1 + \sin \theta)}{1 - \sin \theta(1 + \sin \theta)}$$

$$\Rightarrow x = \frac{\cos \theta(1 + \sin \theta)}{1 - \sin^2 \theta}$$

$$\Rightarrow x = \frac{\cos \theta(1 + \sin \theta)}{\cos^2 \theta}$$

$$\Rightarrow x = \frac{1 + \sin \theta}{\cos \theta}$$

$$\therefore \frac{\cos \theta}{1 + \sin \theta} = \frac{1}{x}$$

**Question 124**

On what sum of money will the difference between S.I and C.I for 2 years at 5% per annum be equal to 25 ?

- A 10,000
- B 10,500
- C 9,500
- D 9000

**Answer: A**

**Explanation:**

Let sum of money =  $100x$

rate = 5%, time = 2 years

$$\Rightarrow \text{S.I.} = \frac{100x \cdot 5 \cdot 2}{100} = 10x$$

$$\Rightarrow \text{C.I.} = 100x \left(1 + \frac{5}{100}\right)^2 - 100x$$

$$= 100x \left(\frac{441}{400} - 1\right)$$

$$= 100x \left(\frac{41}{400}\right) = \frac{41x}{4}$$

$$\text{Required difference} = \frac{41x}{4} - 10x = 25$$

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

$$\Rightarrow \text{Sum} = 100 \cdot 100 = 10,000$$

**Question 125**

In  $\Delta ABC$ ,  $\angle B = 90^\circ$  and  $AB : BC = 2 : 1$ . The value of  $\sin A + \cot C$  is

A  $3 + \sqrt{5}$

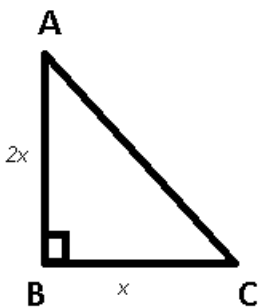
B  $\frac{2 + \sqrt{5}}{2\sqrt{5}}$

C  $2 + \sqrt{5}$

D  $3\sqrt{5}$

**Answer: B**

**Explanation:**



Given :  $\angle B = 90$  and  $AB : BC = 2 : 1$

To find :  $\sin A + \cot C = ?$

Solution : Let  $AB = 2x$  and  $BC = x$

In right  $\triangle ABC$

$$\Rightarrow AC = \sqrt{(AB)^2 + (BC)^2}$$

$$\Rightarrow AC = \sqrt{4x^2 + x^2} = \sqrt{5x^2}$$

$$\Rightarrow AC = \sqrt{5}x$$

$$\Rightarrow \sin A = \frac{BC}{AC}$$

$$\Rightarrow \sin A = \frac{x}{\sqrt{5}x} = \frac{1}{\sqrt{5}}$$

$$\Rightarrow \cot C = \frac{BC}{AB}$$

$$\Rightarrow \cot C = \frac{x}{2x} = \frac{1}{2}$$

Now,  $\sin A + \cot C$

$$= \frac{1}{\sqrt{5}} + \frac{1}{2}$$

$$= \frac{2 + \sqrt{5}}{2\sqrt{5}}$$

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**Question 126**

Anand marks up the price of an article by 50% and then allows a discount of 20% and sells it to Balaji. Balaji sells it for Rs.720 more than what he purchased for, this S.P is 30% more than the original C.P of the article. Then Balaji's profit % is

- A 7.5%
- B 6.66%
- C 8.33%
- D 9%

**Answer: C**

**Explanation:**

For Anand,

Let C.P. =  $100x$

Article is marked up by 50%  $\Rightarrow \frac{50}{100} * 100x = 50x$

Marked price =  $100x + 50x = 150x$

Discount =  $\frac{20}{100} * 150x = 30x$

$\Rightarrow$  S.P. =  $150x - 30x = 120x$

For Balaji,

C.P. =  $120x$  [Since, he purchased from Anand]

Profit = 720

$\Rightarrow$  S.P. =  $120x + 720$

Now, acc to the question, this S.P. is 30 % more than original C.P.

$\Rightarrow$  30% of original CP =  $\frac{30}{100} * 100x = 30x$

$\Rightarrow 120x + 720 = 100x + 30x$

$\Rightarrow x = 72$

Profit % of Balaji =  $\frac{720}{120*72} * 100 = \frac{100}{12}$

= 8.33%

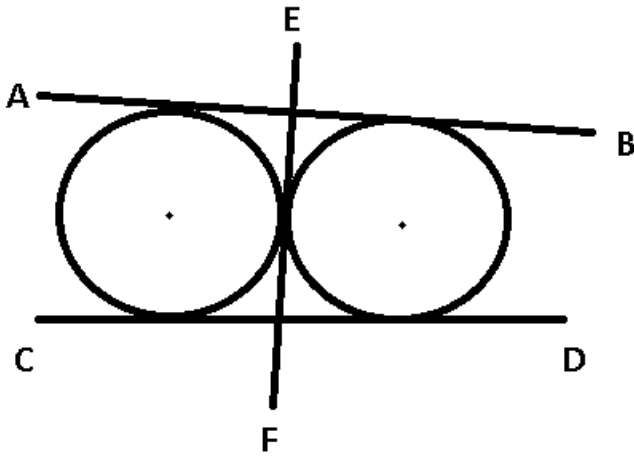
**Question 127**

The maximum number of common tangents drawn to two circles when both the circles touch each other externally is

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

Answer: C

Explanation:



Clearly, there can be only 3 common tangents, AB, CD and EF when both circles touch externally.

**Question 128**

If out of 10 selected students for an examination, 3 were of 20 years, 4 of 21 and 3 of 22 years, the average age of the group is

- A 22 years
- B 21 years
- C 21.5 years
- D 20 years

Answer: B

Explanation:

It is given that 10 students are selected and 3 were of 20 years age, 4 of 21 and 3 of 22 years

As we know that average age =  $\frac{\text{Sum of Ages}}{\text{Number of Students}}$

$$= \frac{(20 \times 3) + (21 \times 4) + (22 \times 3)}{10}$$

$$= 21 \text{ years}$$

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**Question 129**

A cistern normally takes 10 hours to be filled by a tap. But because of a leak, it takes 2 hours more. In how many hours will the leak empty a full cistern ?



- A 45
- B 48
- C 30
- D 60

**Answer: D**

**Explanation:**

let the capacity of tank be 10 units

time taken to fill the tank = 10 h

therefore a tap fills units per hour = 1 unit

due to leak time taken to fill the tank = 10+2 = 12 hrs

in 12 hrs tap would have filled 12 units but, due to leak it filled 10 units [as mentioned in the question]

so therefore due to leak 2 units were lost in 12 hrs

so to empty the tank would lose every 2 units 12 hrs

this means it will take 5\*12 = 60 hrs to empty the tank

**Question 130**

You arrive at your school 5 minutes late if you walk with a speed of 4 km/h, but you arrive 10 minutes before the scheduled time if you walk with a speed of 5 km/h. The distance of your school from your house (in km) is

- A 4
- B 5
- C 10
- D 2

**Answer: B**

**Explanation:**

Here the distance between home and school will remain same, let the distance be D

Let the original time taken be T hours

as in both cases the distance remain constant, we can use

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

$$T_1 = T + \frac{1}{12} \text{ hr}, S_1 = 4 \text{ km/hr}$$

$$T_2 = T - \frac{1}{6} \text{ hr}, S_2 = 5 \text{ km/hr}$$

$$\text{So, } \frac{4}{5} = \frac{(T - \frac{1}{6})}{(T + \frac{1}{12})}$$

$$T = \frac{7}{6} \text{ hour}$$

Distance = Speed x Time

$$\text{Distance of School} = 4 \times \frac{7}{6} = \frac{14}{3} = 4 \frac{2}{3} \text{ km}$$

**Question 131**

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

- A 5(a + 4)

- B 5  
 C  $5(a + b + c + d + e)$   
 D  $a + 4$

**Answer: D**

**Explanation:**

As  $a, b, c, d, e$  are consecutive odd numbers than

$$b = a + 2$$

$$c = a + 4$$

$$d = a + 6$$

$$e = a + 8$$

and we know that,  $\text{average} = \frac{\text{Sum of Elements}}{\text{Number of Elements}}$

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

$$= a + 4$$

## SSC CGL Previous Papers (DOWNLOAD PDF)

**Question 132**

If  $x - \frac{1}{x} = 1$ , then the value of  $\frac{x^4 - \frac{1}{x^2}}{3x^2 + 5x - 3}$  is

- A  $\frac{1}{4}$   
 B  $\frac{1}{2}$   
 C  $\frac{3}{4}$   
 D 0

**Answer: B**

**Explanation:**

In the expression,  $\frac{x^4 - \frac{1}{x^2}}{3x^2 + 5x - 3}$

Dividing numerator and denominator by  $x$ , we get

$$= \frac{x^3 - \frac{1}{x^3}}{3x + 5 - \frac{3}{x}} = \frac{x^3 - \frac{1}{x^3}}{3(x - \frac{1}{x}) + 5}$$

$$= \frac{(x - \frac{1}{x})^3 + 3(x - \frac{1}{x})}{3(x - \frac{1}{x}) + 5}$$

Now, putting  $x - \frac{1}{x} = 1$

$$\text{we get, } = \frac{1 + 3}{3 + 5} = \frac{4}{8} = \frac{1}{2}$$

**Question 133**

If  $\sin \frac{\pi x}{2} = x^2 - 2x + 2$ , then the value of  $x$  is

- A 0  
 B 1

- C  $-1$   
 D None of these

**Answer: B**

**Explanation:**

$$\sin 2^{\frac{\pi x}{2}} = x^2 - 2x + 2$$

We know that sin can take only 3 integral values, 1, 0, and -1.

$x^2 - 2x + 2$  cannot be equal to -2. Any negative value of x will increase the value of expression beyond 4.

The value of the expression can be made equal to 1 (By substituting  $x = 1$ ).

$x = 1$  also satisfies the LHS as  $\sin 90 = 1$ .

Hence, option B is the right answer.

**Question 134**

The value of  $\frac{\sin 43^\circ}{\cos 47^\circ} + \frac{\cos 19^\circ}{\sin 71^\circ} - 8\cos^2 60^\circ$  is

- A 0  
 B 1  
 C 2  
 D -1

**Answer: A**

**Explanation:**

we need to find value of  $\frac{\sin 43^\circ}{\cos 47^\circ} + \frac{\cos 19^\circ}{\sin 71^\circ} - 8\cos^2 60^\circ$

$$\frac{\sin(90-47)}{\cos 47} + \frac{\cos(90-17)}{\sin 71} - 8\cos^2 60$$

$$\frac{\cos 47}{\cos 47} + \frac{\sin 17}{\sin 71} - 8\left(\frac{1}{2}\right)^2$$

$$= 0$$

## SSC CGL Tier-2 Previous Papers PDF

**Question 135**

Which is the largest of the following fractions ?

$$\frac{2}{5}, \frac{3}{5}, \frac{8}{11}, \frac{11}{17}$$

- A  $\frac{8}{11}$   
 B  $\frac{3}{5}$   
 C  $\frac{11}{17}$   
 D  $\frac{2}{3}$

**Answer: A**

**Explanation:**

$$\text{Fractions : } \frac{2}{5}, \frac{3}{5}, \frac{8}{11}, \frac{11}{17}$$

$$\text{L.C.M. of } 5, 11, 17 = 935$$

Now, multiplying each fraction by 935, we get :

$$\Rightarrow 374, 561, 680, 605$$

Since, among these numbers, 680 is the largest  $\equiv \frac{8}{11}$

$\Rightarrow \frac{8}{11}$  is the largest.

**Question 136**

A shopkeeper marks his goods 40% above the cost price. He allows a discount of 5% for cash payment to his customers. He receives 1064 after paying the discount. His profit is

- A 264
- B 164
- C 200
- D 800

**Answer: A**

**Explanation:**

Let cost price =  $100x$

40% of cost price =  $\frac{40}{100} * 100x = 40x$

$\Rightarrow$  Marked price =  $100x + 40x = 140x$

Discounted amount =  $\frac{5}{100} * 140x = 7x$

$\Rightarrow$  S.P. =  $140x - 7x = 1064$

$\Rightarrow x = \frac{1064}{133} = 8$

Now, cost price =  $8 * 100 = 800$  and selling price = 1064 [given]

$\Rightarrow$  Profit =  $1064 - 800 = 264$

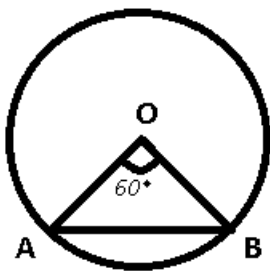
**Question 137**

The angle subtended by a chord at its centre is  $60^\circ$ , then the ratio between chord and radius is

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

**Answer: B**

**Explanation:**



$\Rightarrow OA = OB = \text{radii}$

$\Rightarrow \angle OAB = \angle OBA$

In  $\triangle OAB$ ,

$\Rightarrow \angle OAB + \angle OBA + 60 = 180$

$$\Rightarrow \angle OAB = \angle OBA = 60$$

Since, all angles are equal,  $\Rightarrow$  all sides will be equal too.

$\Rightarrow$  OAB is equilateral triangle with  $OA = AB$

$$\Rightarrow AB : OA = 1 : 1$$

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**Question 138**

If  $x + y = 15$ , then  $(x - 10)^3 + (y - 5)^3$  is

- A 25
- B 125
- C 625
- D 0

**Answer: D**

**Explanation:**

given that  $x + y = 15$

So rearranging the above equation

$$(x - 10) + (y - 5) = 0$$

$$\text{Now, } x - 10 = -(y - 5)$$

On cubing both sides

$$(x - 10)^3 = -(y - 5)^3$$

And hence

$$(x - 10)^3 + (y - 5)^3 = 0$$

**Question 139**

If goods be purchased for 450 and one third sold at a loss of 10%. At what gain percent should the remainder be sold so as to gain 20% on the whole transaction ?

- A 32%
- B 35%
- C 28%
- D 30%

**Answer: B**

**Explanation:**

Let no. of goods purchased be 3 for 450

$$\Rightarrow \text{Price of 1 good} = 150$$

One third i.e.  $\frac{3}{3} = 1$  is sold at 10% discount.

$$\Rightarrow 10\% \text{ of } 150 = \frac{10}{100} * 150 = 15$$

$$\Rightarrow \text{S.P. of 1 good} = 150 - 15 = 135$$

Overall gain % = 20%

$$\Rightarrow \frac{20}{100} * 450 = 90$$

=> Total S.P. for 3 goods =  $450+90 = 540$

Since 1 good is sold at 135 => S.P. of remaining 2 =  $540-135 = 405$

C.P. of remaining 2 goods =  $150*2 = 300$

$$\begin{aligned} \Rightarrow \text{Required profit \%} &= \frac{405-300}{300} * 100 \\ &= 35\% \end{aligned}$$

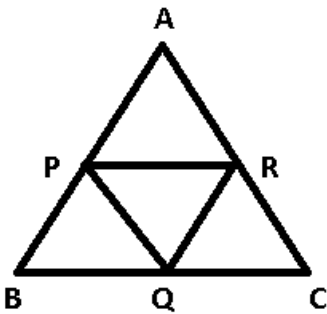
#### Question 140

If ABC is an equilateral triangle and P, Q, R respectively denote the middle points of AB, BC, CA then.

- A PQR must be an equilateral triangle
- B  $PQ + QR + PR = AB$
- C  $PQ + QR + PR = 2 AB$
- D PQR must be a right angled triangle

Answer: A

Explanation:



Given : ABC is an equilateral triangle.

P, Q & R are mid points of AB, BC and AC respectively.

Solution : The line segments joining the mid points of the sides of an equilateral triangle form four sides, each of which is similar to the original triangle.

= PQR is equilateral triangle.

## SSC CGL Important Questions PDF

#### Question 141

A man saves 25 on the purchase of an article on which a discount of 20% is allowed. How much did the man pay ?

- A 75
- B 150
- C 100
- D 125

Answer: C

Explanation:

Let marked price =  $100x$

Discount % = 20%

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

$$\text{Amount saved by man} = 20x = 25$$

$$\Rightarrow x = \frac{25}{20} = 1.25$$

$$\text{Amount paid by man} = 100x - 20x = 80x$$

$$\Rightarrow 80 * 1.25 = 100$$

#### Question 142

Area of the floor of a cubical room is 48 sq.m. The length of the longest rod that can be kept in that room is

- A 9 metre
- B 12 metre
- C 18 metre
- D 6 metre

**Answer: B**

#### Explanation:

as all the sides of cube are equal . and area of floor of a cube =  $(side)^2$

$$\text{so side of cube} = \sqrt{(48)} = 4\sqrt{(3)}$$

$$\text{longest rod length possible is along diagonal of cube} = \sqrt{(3)} * \text{side} = 12 \text{ m}$$

#### Question 143

The cost of a house was X lakhs in 2005. After 3 years, the owner of the house sold it for 25% more than she paid it. But she has to pay a tax of 50% of the gain. The tax amount she has to pay is.

- A  $\frac{X}{2}$
- B  $\frac{X}{8}$
- C  $\frac{X}{4}$
- D  $\frac{X}{24}$

**Answer: B**

#### Explanation:

Cost of house in 2005 (in lakhs) =  $x$

Profit % = 25%

$$\Rightarrow \text{Profit earned} = \frac{25}{100} * x = \frac{x}{4}$$

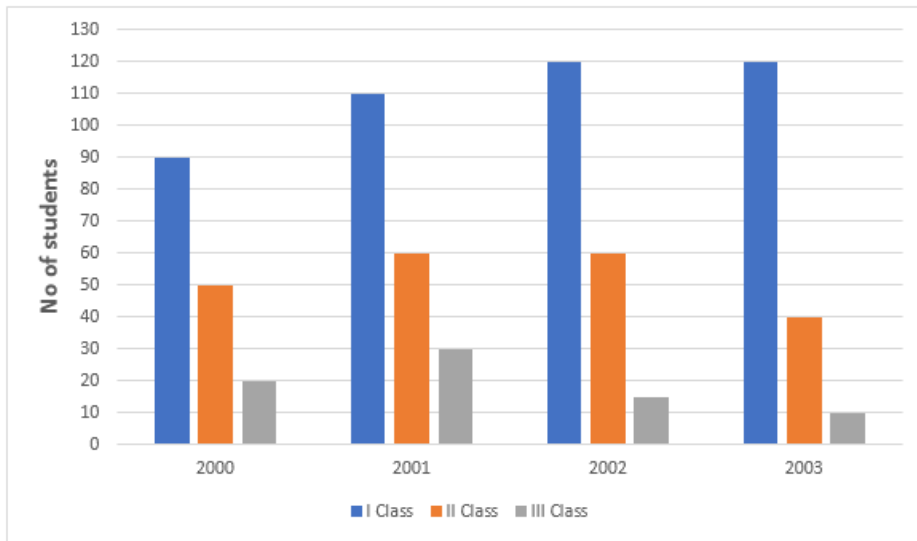
Now, tax paid is 50% of the gain

$$\Rightarrow \text{Tax paid} = \frac{50}{100} * \frac{x}{4} = \frac{x}{8}$$

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#### Instructions

The graph shows the result of 10th class students of a school for 4 years. Study the graph and answer the questions :



**Question 144**

The number of students appeared for the 10th class exam in the year 2002 is

- A 180
- B 195
- C 200
- D 120

**Answer: B**

**Explanation:**

In 2002, no. of students who passed in :

1st class = 120

2nd class = 60

3rd class = 15

=> Total no. of students appeared for class 10th exam in 2002 =  $120+60+15 = 195$

**Question 145**

The percentage increase of first class in the year 2003 over the year 2002 is approximately

- A 12%
- B 0%
- C 10%
- D 9%

**Answer: B**

**Explanation:**

No. of students passed with 1st class in 2002 = 120

No. of students passed with 1st class in 2003 = 120

Since, both are same, thus % change = 0%

**Question 146**

The year in which the maximum number of students appeared for the 10th class exam is



- A 2001
- B 2002
- C 2003
- D 2000

**Answer:** A

**Explanation:**

No. of students appeared for 10th class exam in :

$$2000 = 90+50+20 = 160$$

$$2001 = 110+60+30 = 200 \text{ [MAX]}$$

$$2002 = 120+60+15 = 195$$

$$2003 = 120+40+10 = 170$$

=> Maximum students appeared in 2001.

## General Science Notes for SSC CGL

**Question 147**

The ratio of students who scored second class to the total students appeared in the year 2000 is

- A 3 : 16
- B 4 : 17
- C 5 : 16
- D 11 : 16

**Answer:** C

**Explanation:**

In 2000, no. of students who passed with :

$$1\text{st class} = 90$$

$$2\text{nd class} = 50$$

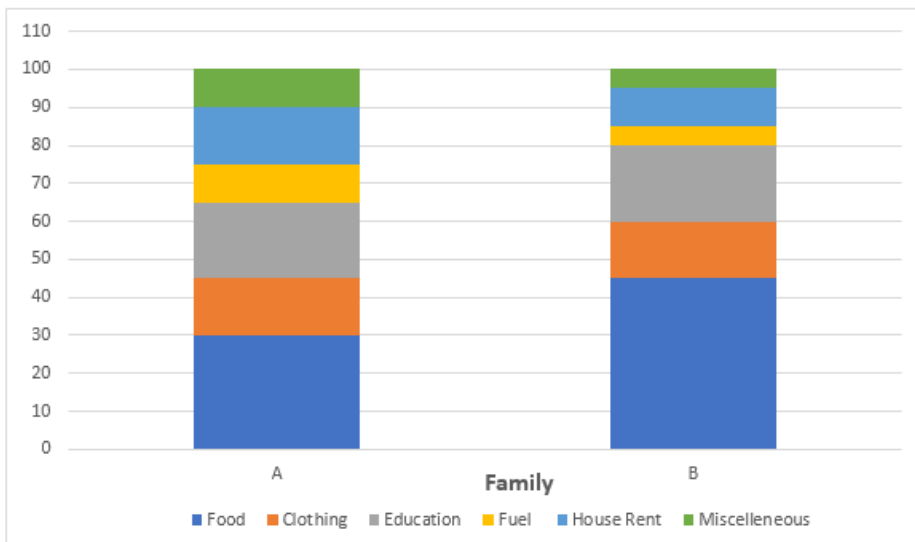
$$3\text{rd class} = 20$$

$$\text{Total students} = 90+50+20 = 160$$

$$\Rightarrow \text{Required ratio} = \frac{50}{160} = 5 : 16$$

**Instructions**

Study and answer the questions.



**Question 148**

If the total annual expenditure of family B is 10,000 then money spent on clothes during the year is

- A 600
- B 6000
- C 1500
- D 200

**Answer: C**

**Explanation:**

Total expenditure of family B = 10,000

% spent on clothing = 15%

$$\Rightarrow \text{Amount spent on clothing} = \frac{15}{100} * 10,000$$

$$= 1,500$$

**Question 149**

What fraction of the total expenditure is spent on Education in family A ?

- A  $\frac{2}{3}$
- B  $\frac{9}{13}$
- C  $\frac{1}{5}$
- D  $\frac{13}{20}$

**Answer: C**

**Explanation:**

% spent on education by family A = 20%

$$\text{Fraction of total expenditure spent on education} = \frac{20}{100}$$

$$= \frac{1}{5}$$

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### Question 150

If the total annual expenditure of family A is 30,000 then money spent on food, clothes and house rents is.

- A 18,000
- B 21,000
- C 15,000
- D 18,500

**Answer:** A

#### **Explanation:**

Total expenditure of family A = 30,000

Money spent on food =  $\frac{30}{100} * 30,000 = 9,000$

Money spent on clothes =  $\frac{15}{100} * 30,000 = 4,500$

Money spent on house rent =  $\frac{15}{100} * 30,000 = 4,500$

=> Total money spent on food, clothes and house rent =  $9000 + 4500 + 4500$   
= 18,000

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### Reasoning

#### **Instructions**

In each of the following questions, select the related words/letters/numbers from the given alternatives.

### Question 151

82 : 06 :: 76 : ?

- A 15
- B 01
- C 12
- D 24

**Answer:** B

#### **Explanation:**

Expression = 82 : 06 :: 76 : ?

The number on the right is equal to the difference of the digits of the number on the left.

Eg =  $8 - 2 = 06$

Similarly,  $7 - 6 = 01$

=> Ans - (B)

## SSC Free Preparation App

**Question 152**

**BED : GJI :: LON : ?**

- A QTS
- B PTS
- C QST
- D KNH

**Answer: A**

**Explanation:**

Expression = BED : GJI :: LON : ?

The pattern followed is =

B	E	D
(+5)	(+5)	(+5)
G	J	I

Similarly, for LON :

L	O	N
(+5)	(+5)	(+5)
Q	T	S

=> Ans - (A)

**Question 153**

**CDGF : HILK :: NORQ : ?**

- A UVWY
- B PQMW
- C STWV
- D IGNL

**Answer: C**

**Explanation:**

Expression = CDGF : HILK :: NORQ : ?

The pattern followed is :

C	D	G	F
(+5)	(+5)	(+5)	(+5)
H	I	L	K

Similarly, for NORQ :

N	O	R	Q
(+5)	(+5)	(+5)	(+5)
S	T	W	V

=> Ans - (C)

**Question 154**

**Reference material : Dictionary :: Periodical : ?**

- A Book

- B Atlas
- C Biography
- D Newspaper

**Answer:** D

**Explanation:**

The second belongs to the first. Dictionary is a reference material. Similarly, Newspaper is a periodical.

=> Ans - (D)

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**Question 155**

**KMNP : ACDF :: PRSU : ?**

- A STVW
- B TVWY
- C VXYZ
- D LNPR

**Answer:** B

**Explanation:**

Expression = KMNP : ACDF :: PRSU : ?

The pattern followed is :

K (+2 letters) = M (+1 letter) = N (+2 letters) = P

A (+2 letters) = C (+1 letter) = D (+2 letters) = F

P (+2 letters) = R (+1 letter) = S (+2 letters) = U

Similarly, T (+2 letters) = V (+1 letter) = W (+2 letters) = Y

=> Ans - (B)

**Question 156**

**Tea : Cup :: Soup : ?**

- A Glass
- B Spoon
- C Bowl
- D Mug

**Answer:** C

**Explanation:**

The first is contained or served in the second. Tea is served in the cup. Similarly, soup is served in the bowl.

=> Ans - (C)

**Instructions**

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

**Question 157**

- A Forgetting
- B Convergent Production
- C Divergent Production
- D Cognition

**Answer: A**

**Explanation:**

Forgetting is different from the other three terms, convergent production, divergent production and cognition are synonyms.

=> Ans - (A)

## SSC CGL Free Online Coaching

**Question 158**

- A 9-26
- B 11-36
- C 13-42
- D 7-18

**Answer: B**

**Explanation:**

The sum of numbers only in the second option is prime.

(A) :  $9 + 26 = 35$

(B) :  $11 + 36 = 47$  [prime]

(C) :  $13 + 42 = 55$

(D) :  $7 + 18 = 25$

=> Ans - (B)

**Question 159**

- A WXYZ
- B PRSQ
- C ABCD
- D EFGH

**Answer: B**

**Explanation:**

All the terms but for the second one, contain consecutive alphabets.

Eg = WXYZ , ABCD , EFGH

=> Ans - (B)

**Question 160**

- A I
- B N

C W

D H

Answer: A

**Explanation:**

Except I, all others are consonants.

=> Ans - (A)

## SSC CHSL Previous Question papers (download pdf)

**Question 161**

A 679

B 124

C 568

D 345

Answer: D

**Explanation:**

Except in the 345, in all other numbers the difference between the unit's digit and the hundredth digit is 3.

(A) :  $9 - 6 = 3$

(B) :  $4 - 1 = 3$

(C) :  $8 - 5 = 3$

(D) :  $5 - 3 = 2$

=> Ans - (D)

**Question 162**

A Distress

B Sorrow

C Fantasy

D Disgust

Answer: C

**Explanation:**

Fantasy is different from the other three words. Fantasy means 'imagination'. All, other words show negative or painful state.

=> Ans - (C)

**Instructions**

For the following questions answer them individually

**Question 163**

Arrange the following words as per order in the dictionary.

(A) Acarpous

(B) Across

(C) Accede

(D) Academic

(E) Accentuate

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

**Answer:** A

**Explanation:**

Since each of the word starts with 'ac' , we start with the third letter, which are 'a,r,c'

=> a < c < r

=> Academic -> Acarpous -> Accede -> Accentuate -> Across

=> (D), (A), (C), (E), (B)

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**Question 164**

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

- (A) substance (B) atom
- (C) molecule (D) proton

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

**Answer:** A

**Explanation:**

In this case proton is present in atom and atom is present inside molecule and cluster of molecules make a substance .

Hence the order of given elements is :

protons --> atoms ---> molecule --> substance

(D - B - C - A)

**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 165**

2, 20, 56, 110, ? .

- A 132
- B 144
- C 182
- D 115

**Answer:** C

**Explanation:**



Let the missing number be y

here the given sequence is 2, 20, 56, 110, y

we can see the hidden pattern as :

$$20 - 2 = 18 \times 1$$

$$56 - 20 = 18 \times 2$$

$$110 - 56 = 18 \times 3$$

as we can see the difference in every successive case is increasing multiple of 18

$$\text{hence, } y - 110 = 18 \times 4 = 72$$

$$y = 110 + 72 = 182$$

**Question 166**

**MENIPO ? , ?**

A QI

B PA

C QU

D QO

**Answer: C**

**Explanation:**

The letters in odd places are consonants and the letters in even places are vowels.

The next consonant after P is Q.

The next vowel after O is U.

Hence the missing letters are Q and U.

Option C is the correct answer.

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**Question 167**

**LMN, MNOP, NOPQR, ? .**

A OPQRST

B RSTUVW

C QRSTUV

D PQRSTU

**Answer: A**

**Explanation:**

The length of each term is one more than the previous term.

Each term consists of consecutive alphabets.

The first letter of each term is the next letter of the first letter of the preceding term.

The last term given is NOPQR.

Hence the next term would be OPQRST.

Hence Option A is the correct answer.

**Question 168**

**121, 222, 424, ?**

- A 646
- B 828
- C 626
- D 524

**Answer:** B

**Explanation:**

Let the missing number is y

here the given pattern is 121, 222, 424, y

the hidden pattern here is that in every successive number the unit and ten's digit place is getting doubled compared to previous one and the middle term is remaining same in every case which is equal to 2

hence , y = 828

**Instructions**

For the following questions answer them individually

**Question 169**

**A is B's wife's husband's brother. C and D are sisters of B. How is A related to C ?**

- A Brother
- B Sister-in-law
- C Wife
- D Sister

**Answer:** A

**Explanation:**

B's wife's husband's is B himself.

=> A and B are brothers.

It is given that C and D are sisters of B, => A(male), B(male), C(female) and D(female) are siblings.

∴ A is the brother of C.

=> Ans - (A)

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**Question 170**

**From the given alternative words, select the word which cannot be formed using the letters of the given word : PRESUMPTION**

- A TIER
- B POMPOUS
- C PUMP
- D RUIN

**Answer:** B

**Explanation:**

from the given alternatives it can be seen that all except the word POMPOUS can be formed from the word PRESUMPTION as it doesn't

have the letter 'O'.  
therefore the correct answer is option B.

**Question 171**

If BEAT = 25 - 22 - 26 - 7 and RUST = 9 - 6 - 8 - 7 then how will you code 'BURST' ?

- A 25 - 22 - 9 - 8 - 7
- B 25 - 9 - 6 - 8 - 7
- C 25 - 9 - 8 - 7 - 6
- D 25 - 6 - 9 - 8 - 7

**Answer: D**

**Explanation:**

in English we have 25 alphabets and here the alphabets are numbered in reverse direction hence Z = 1 , Y = 2....and B = 25 , A = 26

It is given that :

BEAT = 25 - 22 - 26 - 7 and RUST = 9 - 6 - 8 - 7

here the numbers are representing numbering value of the alphabet , hence

BURST = 25 - 6 - 9 - 8 - 7

**Question 172**

In a code language 'TEMPORARY' is written as 'EPRSAYOYM' and 'EXCUSE' as 'PGNVXP'. How is 'ASSURE' written in that code ?

- A OPPVXE
- B OXXVYP
- C OPPVXP
- D OXXYVD

**Answer: B**

**Explanation:**

The code for each letter is given :

- A -> O
- S -> X
- S -> X
- U -> V
- R -> Y
- E -> P

Thus, ASSURE : **OXXVYP**

=> Ans - (B)

## SSC CGL Previous Papers (DOWNLOAD PDF)

**Question 173**

How many such pairs of letters are there in the word RECOVERED, which have as many letters between them in the word as in the English alphabet ?

- A Three
- B Four

- C Six
- D Five

**Answer: B**

**Explanation:**

There are 4 pairs of letters.

(E,D)= ED (0 letters between them.) = 1

(R,V) = RECOV (Three letters between R and V (ie. S,T and U) ) = 1

(O,R)= OVER and RECO (Two letters between O and R (ie.P and Q) ) = 2

Hence Option B is the correct answer.

**Question 174**

A train runs for 2 hrs at the speed of 40 km/h and then runs for 4.5 hrs at the speed of 60 km/h and then runs for 3.5 hrs at the speed of 70 km per hour. Find the average speed of the train.

- A 59.5 km/h
- B 80 km/h
- C 56.87 km/h
- D 57.1 km/h

**Answer: A**

**Explanation:**

here the distance covered by train in 1st 2 hours =  $40 \times 2 = 80$  km

now the distance covered by train in next 4.5 hours =  $60 \times 4.5 = 270$  km

now the distance covered by train in next 3.5 hours =  $70 \times 3.5 = 245$  km

Total distance travelled by train =  $80 + 270 + 245 = 595$  km

Total time =  $2 + 4.5 + 3.5 = 10$  hours

Average speed =  $\frac{\text{total distance}}{\text{total time}}$

=  $595/10 = 59.5$  km/hr

**Question 175**

$$9 \times \frac{27}{25} \div \frac{3}{5} = ?$$

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

**Answer: D**

**Explanation:**

$$9 \times \frac{27}{25} \div \frac{3}{5}$$

Using BODMAS,

$$= 9 \times \frac{27 \times 5}{25 \times 3}$$

$$\begin{aligned} &= \frac{5 \times 27 \times 5}{9 \times 25 \times 3} \\ &= 1 \end{aligned}$$

## SSC CGL Tier-2 Previous Papers PDF

### Question 176

From the given alternatives select the word which can be formed using the letters given in the word. RATIONALISATION

- A SENSATION
- B ALTERATION
- C TRANSITION
- D INTERNAL

**Answer:** C

#### Explanation:

apart from the word TRANSITION no other word can be completely formed using the letters of the word RATIONALISATION . therefore the correct answer is option C.

### Question 177

After giving a discount of 15% an article is sold at Rs. 2550, what is its marked price ?

- A Rs. 3200
- B Rs. 3000
- C Rs. 2900
- D Rs. 3700

**Answer:** B

#### Explanation:

Let marked price =  $100x$

Discount given = 15%

$$\Rightarrow \text{Discount amount} = \frac{15}{100} * 100x = 15x$$

$$\Rightarrow \text{S.P. } 100x - 15x = 2550$$

$$\Rightarrow x = \frac{2550}{85} = 30$$

Marked Price =  $100 * 30 = \text{Rs } 3,000$

### Question 178

If + means  $\div$ , - means  $\times$ ,  $\times$  means + and  $\div$  means -, then which of the alternatives is correct ?

- A  $5 \times 8 - 5 + 5 \div 1 = 12$
- B  $55 - 2 + 10 \div 1 \times 5 = 16$
- C  $38 \div 10 - 5 + 7 \times 8 = 25$
- D  $10 - 12 + 2 \div 30 \times 1 = 10$

**Answer:** A

#### Explanation:

If + means  $\div$ , - means  $\times$ ,  $\times$  means + and  $\div$  means -, then :

(A) :  $5 \times 8 - 5 + 5 \div 1 = 12 \Rightarrow 5 + 8 * 5 \div 5 - 1$

$\Rightarrow 5 + 8 * 1 - 1 = 4 + 8 = 12 = \text{R.H.S.}$

(B) :  $55 - 2 + 10 \div 1 \times 5 = 16 \Rightarrow 55 * 2 \div 10 - 1 + 5$

$\Rightarrow 11 + 4 = 15 \neq \text{R.H.S.}$

(C) :  $38 \div 10 - 5 + 7 \times 8 = 25 \Rightarrow 38 - 10 * 5 \div 7 + 8$

$\Rightarrow 46 - \frac{50}{7} = \sim 39 \neq \text{R.H.S.}$

(D) :  $10 - 12 + 2 \div 30 \times 1 = 10 \Rightarrow 10 * 12 \div 2 - 30 + 1$

$\Rightarrow 60 - 29 = 31 \neq \text{R.H.S.}$

Ans - (A)

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### Question 179

The age of Ram is double as that of Shyam and half as that of Suresh. If the sum of their ages is 70, what is the age of Ram ?

A 20

B 30

C 40

D 10

Answer: A

### Explanation:

Let Shyam's age =  $x$  years

$\Rightarrow$  Ram's age =  $2x$  years

and Suresh's age =  $4x$  years

Thus, sum of ages =  $x + 2x + 4x = 70$

$\Rightarrow 7x = 70$

$\Rightarrow x = \frac{70}{7} = 10$  years

$\therefore$  Ram's age =  $2 \times 10 = 20$  years

$\Rightarrow$  Ans - (A)

### Question 180

If PRQST is coded as 13245 and OTUWV is coded as 05687, then how is TXOQP coded ?

A 59021

B 69021

C 21096

D 95210

Answer: A

### Explanation:

If PRQST is coded as 13245 and OTUWV is coded as 05687. it can be observed that letter O=1,P=2 and so on therefore TXOQP can be coded similarly as 59021.

option A.

**Question 181**

Insert the arithmetic operations in the following numerical figures :

$$13 * 3 * 4 * 3 = 4$$

A  $\div \times +$

B  $- \times +$

C  $+ \times \div$

D  $+ \div \times$

**Answer: B**

**Explanation:**

Expression :  $13 * 3 * 4 * 3 = 43$

(A) :  $13/3 * 4 + 3 = 20.33$

(B) :  $13 - 3 * 4 + 3 = 4$

(C) :  $13 + 3 * 4/3 = 17$

(D) :  $13 + 3/4 * 3 = 15.25$

=> Ans - (B)

**SSC CGL Important Questions PDF**

**Instructions**

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

**Question 182**

3	5	2
6	7	8
9	10	4
?	65	30

A 50

B 51

C 52

D 49

**Answer: B**

**Explanation:**

Let the number in the first row be 'a', in the second row be 'b', in the third row be 'c' and in the fourth row be 'd'.

The pattern followed is :  $(b * c - a = d)$

=> Missing number =  $6*9 - 3 = 54-3 = 51$

Question 183

3	4	13
8	8	56
5	3	?

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

Answer: A

**Explanation:**

squaring the middle column minus the first column is equals to the last column

Question 184

25	17	41
32	40	11
26	?	31

- A 25
- B 34
- C 38
- D 26

Answer: D

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Question 185

Ram and Ravi start together from a point in opposite direction on scooters. Ram's speed is 21 km/h and Ravi's speed is 15 km/h. What will be the distance between them after 20 minutes ?

- A 25 km
- B 16 km
- C 12 km
- D 45 km

Answer: C

**Explanation:**

Ram and Ravi are moving in opposite direction.

Speed of Ram = 21 km/hr



Speed of Ravi = 15 km/hr

Relative speed =  $21 + 15 = 36$  km/hr

Time = 20 min =  $\frac{1}{3}$  hour

using Distance = Speed x Time

Distance =  $36 \times \frac{1}{3} = 12$  km

#### Question 186

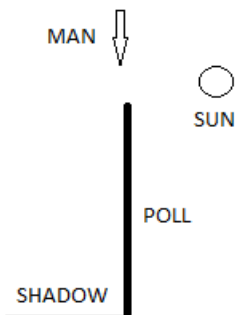
One morning after sunrise, Gangadhar was walking facing a pole. The shadow of the pole fell exactly to his right, which direction was he facing ?

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

Answer: A

#### Explanation:

As sun rises in the east, the shadow of the pole is in west direction and man is walking in the south direction because in this case the shadow of pole will be in his right direction.



#### Instructions

In each of the following questions, one statement(s) is followed by two Conclusions/ Assumptions, I and II. You have to consider the statement(s) to be true, even if they seem(s) to be at variance from commonly known facts. You have to decide which of the given conclusions/assumptions, if any, follow(s) from the given statements (s).

#### Question 187

**Statement :** Read this notice before entering into the stadium.

**Assumptions :**

- I. People are literate.
- II. No blind person comes to the stadium.

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

Answer: C

Question 188

Statement : A car had driven off the road and hit a tree. The driver was efficient enough. The road was not good. The driver drove the car for last fifteen years.

Conclusions :

- I. The accident occurred due to bad condition of road.
- II. There was a mechanical fault in the car.

- A Only conclusion II is true
- B Both the conclusions can be true
- C None of the conclusions can be true
- D Only conclusion I is true

Answer: B

Explanation:

It is given that the driver is experienced and efficient. Also, the road was not good, so this might be the cause for the accident, as given in the first conclusion.

Also, there is a also a possibility of a mechanical fault in the car which could have resulted in the accident.

Thus, both the conclusions can be true

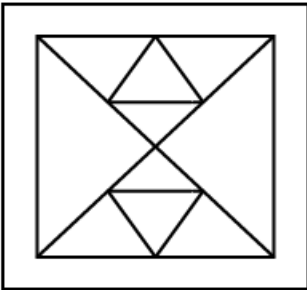
=> Ans - (B)

Instructions

For the following questions answer them individually

Question 189

How many triangles are there in this figure ?



- A 12
- B 14
- C 16
- D 10

Answer: C

Explanation:

Smaller triangles = 10

Triangles formed by combination of 4 triangles = 2

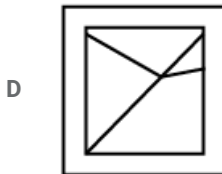
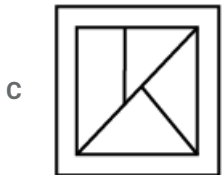
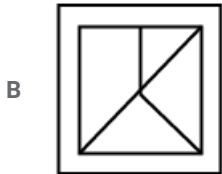
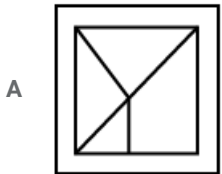
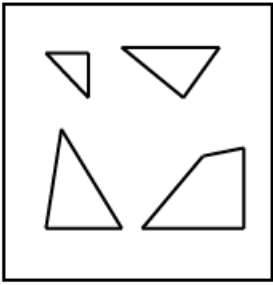
Larger triangles (at the diagonals) = 4

Thus, total triangles = 10 + 2 + 4 = 16

=> Ans - (C)

Question 190

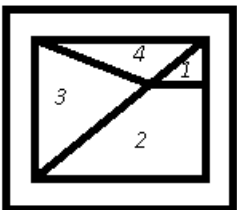
Form the correct pattern with the segments given.



Answer: D

Explanation:

The segments when joined will form :



where each segments is represented by regions 1,2,3 & 4

Ans - (D)

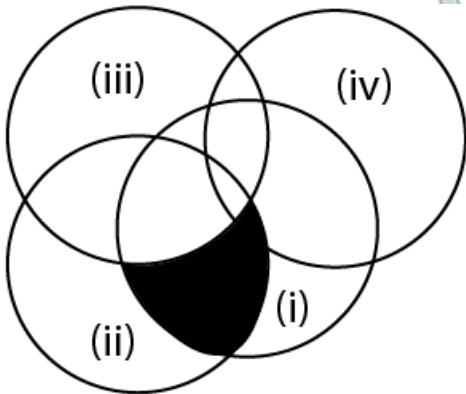
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Question 191

The following diagram represents people who speak different languages.

- (i) Kannada
- (ii) English
- (iii) Hindi
- (iv) Marathi

What does the shaded area represents ? "diagram"



- A People who speak English and Hindi.
- B People who speak Kannada, English and Hindi.
- C People who speak Kannada, English and Marathi.
- D People who speak Kannada and English.

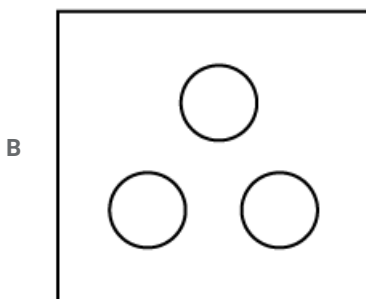
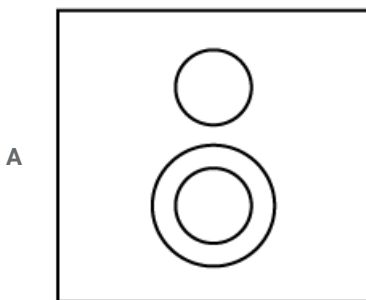
Answer: C

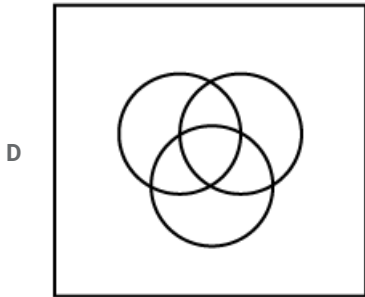
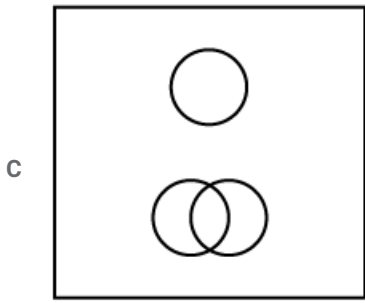
Explanation:

As the shaded region only contain people from region i , ii, and iv then region iii people (Hindi Speaking people) are not present hence, shaded region only shows People who speak Kannada, English and Marathi.

Question 192

Which one of the following diagrams represents the correct relationship with the Class teacher, Girls and Boys of Std. VIII?



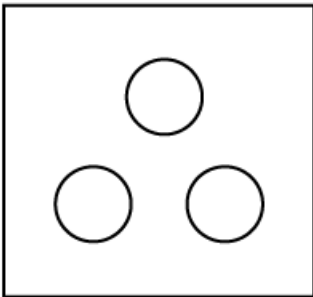


Answer: B

**Explanation:**

The class teacher, girls and boys of Std VIII are different groups. There is nothing in common between them.

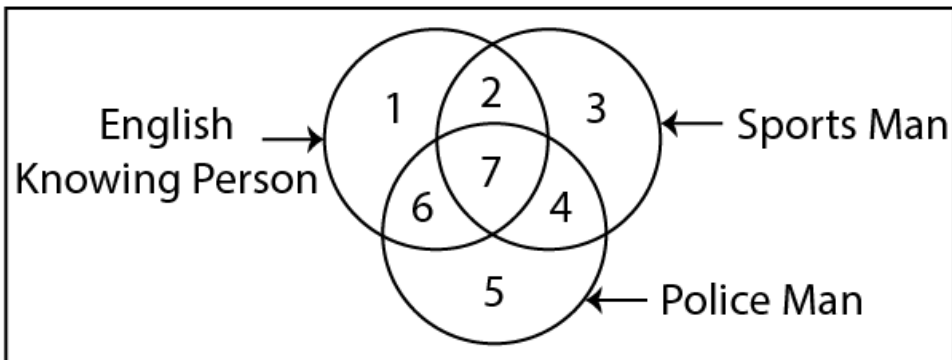
The relation between above groups is depicted by :



Ans - (B)

**Question 193**

There are three intersecting circles representing English knowing persons, sportsman and persons who are working as policeman. Different regions so obtained in the figure are marked 1, 2, 3, 4, 5, 6 and 7.



If you select persons, who do not know English and are not policeman, which of the region is to be selected ?

A 7

B 6

C 3

D 2

Answer: C

**Explanation:**

Persons knowing English =  $1 + 2 + 6 + 7$

Police man =  $4 + 5 + 6 + 7$

Regions that represent both persons knowing English and policeman =  $1 + 2 + 4 + 5 + 6 + 7$

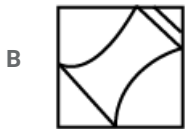
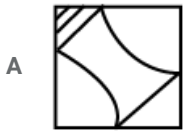
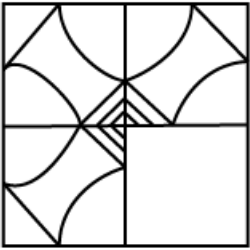
=> Region in which neither person knows English nor is a policeman = 3

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**Instructions**

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

**Question 194**



Answer: A

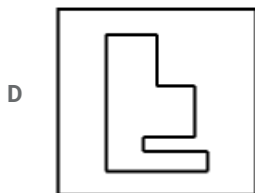
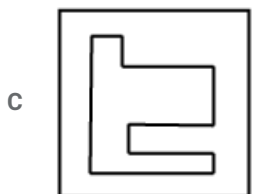
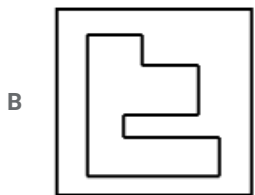
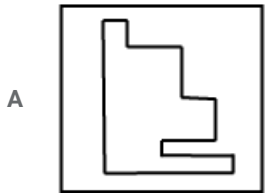
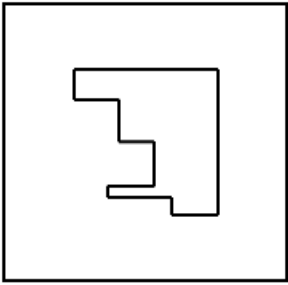
**Explanation:**

To complete the given figure, we need two lines at the top left of the square to complete the give squares in the above figure.

Clearly, these are present in option (A)

Ans - (A)

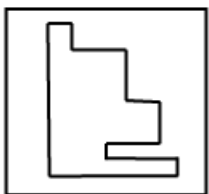
Question 195



Answer: A

**Explanation:**

If we place a vertical mirror in front of the question figure, we will get :

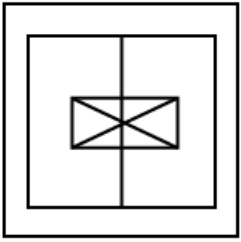


Ans - (A)

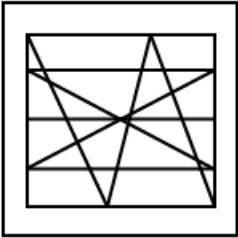
**Instructions**

In each of the following questions, from the given answer figures, select the one in which the question figure is hidden/embedded.

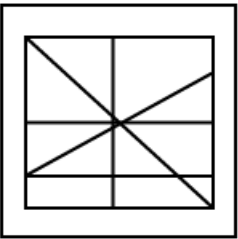
Question 196



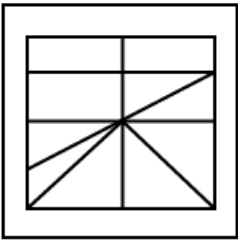
A



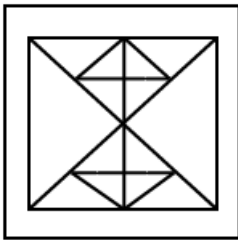
B



C

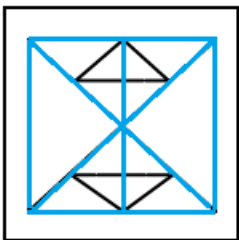


D



Answer: D

Explanation:

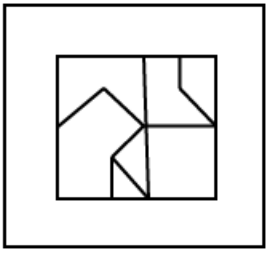


The question figure is embedded in the above figure in the blue colour.

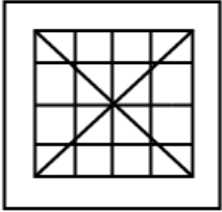
=> Ans - (D)



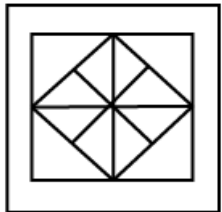
Question 197



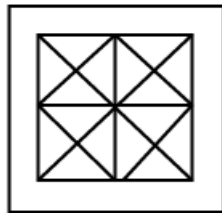
A



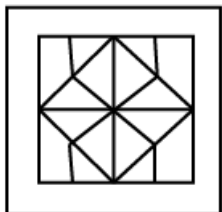
B



C

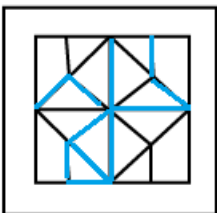


D



Answer: D

Explanation:



The question figure is embedded in the above figure in yellow colour.

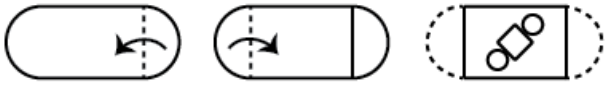
=> Ans - (D)

**Instructions**

For the following questions answer them individually

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.



- A
- B
- C
- D

Answer: C

Question 199

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., 'N' can be represented by 43,34, etc., and 'R' can be represented by 97,68, etc. Similarly, you have to identify the set for the word given 'POLO'.

MATRIX I

	0	1	2	3	4
4	K	L	M	N	O
3	L	M	K	O	N
2	N	O	L	M	K
1	M	N	O	K	L
0	O	K	N	L	M

MATRIX II

	5	6	7	8	9
9	P	Q	R	S	T
8	T	S	Q	P	R
7	R	T	S	Q	P
6	S	P	T	R	Q
5	Q	R	P	T	S

- A 79, 12, 14, 34
- B 95, 00, 22, 44
- C 88, 33, 24, 44
- D 66, 21, 24, 44

Answer: B

Explanation:

(A) : 79, 12, 16, 36 - POLN

(B) : 95, 00, 22, 44 - **POLO**

(C) : 88, 33, 26, 48 - POKO

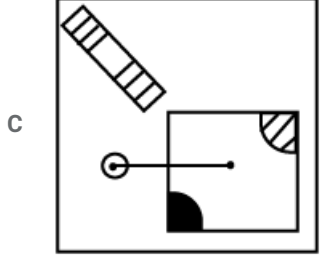
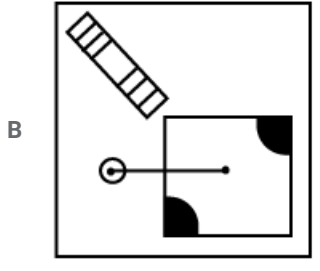
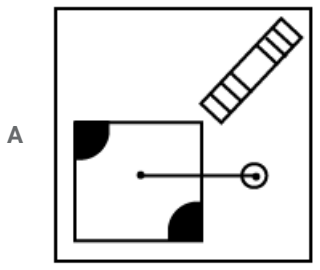
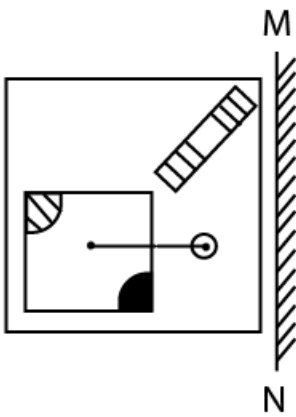
(D) : 66, 21, 24, 25 - POKO

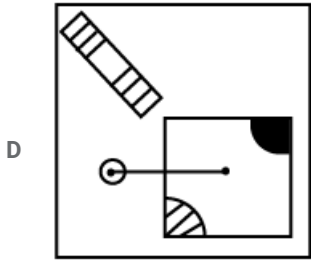
=> Ans - (B)

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Question 200

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





Answer: C

**Explanation:**

The stick outside the box is at the top right corner of the square => In the mirror it will appear at top left of the square.

=> (A) is eliminated

The black quadrant is at bottom right => it will appear at bottom left

=> (D) is eliminated

The striped quadrant is at top left => it will appear at top right in the mirror

=> (B) is eliminated

Ans - (C)

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