



## SSC CGL 2011 Tier 1 26 June Morning I

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## General Awareness

### Instructions

For the following questions answer them individually

### Question 1

When there is an official change in the exchange rate of domestic currency, then it is called :

- A Appreciation
- B Depreciation
- C Revaluation
- D Deflation

Answer: C

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### Question 2

Inflation redistributes income and wealth in favour of :

- A Pensioners
- B Poor
- C Middle class
- D Rich

Answer: D

### Question 3

The fringe benefit tax was introduced in the budget of

- A 2003-04
- B 2004-05
- C 2005-06
- D 2006-07

Answer: C

### Question 4

In the Budget estimates for 2011-12, an allocation of 400 crore has been made to bring in a green revolution in the East in the cropping system of ?

- A Wheat
- B Rice
- C Jowar
- D Pulses

Answer: B

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### Question 5

As announced by the Finance Minister in his budget speech on 28-2-2011, the income tax exemption limit for individuals other than senior citizens and women has been raised

- A 1,80,000
- B 1,90,000
- C 2,00,000
- D 2,50,000

Answer: A

### Question 6

Judicial review in the Indian Constitution is based on :

- A Rule of Law
- B Due process of Law
- C Procedure established by Law
- D Precedents and Conventions

Answer: C

### Question 7

The Drafting of the Constitution was completed on :

- A 26th January, 1950
- B 26th December, 1949
- C 26th November, 1949
- D 30th November, 1949

Answer: C

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### Question 8

Who was the President of the Constituent Assembly?

- A Pt. Jawahar Lal Nehru
- B Sardar Patel
- C Dr. Rajendra Prasad
- D Dr. B.R. Ambedkar

Answer: C

**Question 9**

Which innovative discussion process is introduced by the Indian parliament to the World Parliamentary systems ?

- A Question hour
- B Zero hour
- C Resolutions
- D Presidential Speech

**Answer: B**

**Question 10**

The judges of the Supreme Court retire at the age of :

- A 60 years
- B 65 years
- C 62 years
- D 58 years

**Answer: B**

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**Question 11**

The Greek ambassador sent to Chandragupta Malaya's Court was :

- A Kautilya
- B Seleucus Nicator
- C Megasthenes
- D Justin

**Answer: C**

**Question 12**

The European power from whom Shivaji obtained cannons and ammunition is :

- A The French
- B The Portuguese
- C The Dutch
- D The English

**Answer: B**

**Question 13**

The call of "Back to the Vedas" was given by :

- A Swami Vivekananda
- B Swami Dayanand Saraswati
- C Aurobindo Ghosh
- D Raja Ram Mohan Roy

**Answer: B**

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### Question 14

Simon Commission was boycotted by the nationalist leaders of India because :

- A they felt that it was only an eyewash
- B all the members of the Commission were English
- C the members of the Commission were biased against India
- D it did not meet the demands of the Indians

**Answer: B**

### Question 15

Who is the British person who has admitted the Revolt of 1857 as a national revolt ?

- A Lord Dalhousie
- B Lord Canning
- C Lord Ellenborough
- D Benziman Disraeli

**Answer: D**

### Question 16

How much of the Earth's land surface is desert ?

- A 1/10th
- B 1/5th
- C 1/3rd
- D 1/6th

**Answer: B**

## SSC CGL Important Questions PDF

### Question 17

Which of the following is called the 'shrimp capital of India' ?

- A Mangalore
- B Nagapatnam
- C Kochi
- D Nellore

**Answer: D**

**Question 18**

**River Indus originates from :**

- A Hindukush range
- B Himalayan range
- C Karakoram range
- D Kailash range

**Answer: D**

**Question 19**

**The lowest layer of the atmosphere is :**

- A Stratosphere
- B Thermosphere
- C Troposphere
- D Mesosphere

**Answer: C**

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**Question 20**

**The Konkan Railway connects :**

- A Goa – Mangalore
- B Roha – Mangalore
- C Kanyakumari – Mangalore
- D Kanyakumari – Mumbai

**Answer: B**

**Question 21**

**Bark of this tree is used as a condiment—**

- A Cinnamon
- B Clove

C Neem

D Palm

**Answer: A**

**Question 22**

**Who was the architect of North and South Blocks of the Central Secretariat in Delhi ?**

A Sir Edward Lutyens

B Herbert Baker

C Robert Tor Russell

D Antonin Raymond

**Answer: B**

## General Science Notes for SSC CGL

**Question 23**

**Saliva helps in the digestion of :**

A Fats

B Starch

C Proteins

D Vitamins

**Answer: B**

**Question 24**

**The longest bone in the human body is :**

A Ulna

B Humerus

C Femur

D Tibia

**Answer: C**

**Question 25**

**Red data book gives information about species which are :**

A extinct

B endangered

C dangerous

D rare

**Answer: B**

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Question 26

Which of the following is the smallest bird?

- A Pigeon
- B Parrot
- C Humming bird
- D House sparrow

Answer: C

Question 27

The time period of a pendulum when taken to the Moon would :

- A remain the same
- B decrease
- C become zero
- D increase

Answer: D

Question 28

The atmospheric air is held to the Earth by :

- A gravity
- B winds
- C clouds
- D rotation of the Earth

Answer: A

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Question 29

The function of ball bearings in a wheel is :

- A to increase friction
- B to convert kinetic friction into rolling friction
- C to convert static friction into kinetic friction
- D just for convenience

Answer: B



**Question 30**

'Shock-absorbers' are usually made of steel as it :

- A is not brittle
- B has lower elasticity
- C has higher elasticity
- D has no ductile property

**Answer: C**

**Question 31**

The first computer made available for commercial use was :

- A MANIAC
- B ENIAC
- C UNIVAC
- D EDSAC

**Answer: C**

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**Question 32**

A communication network which is used by large organizations over regional, national or global area is called :

- A LAN
- B WAN
- C MAN
- D VAN

**Answer: B**

**Question 33**

Which gases could be used as fuel in propellant or rockets?

- A Liquid Hydrogen + Liquid Nitrogen
- B Liquid Oxygen + Liquid Argon
- C Liquid Nitrogen + Liquid Oxygen
- D Liquid Hydrogen + Liquid Oxygen

**Answer: D**

**Question 34**

The addition of gypsum to port-land cement helps in :

- A increasing the strength of cement
- B rapid setting of cement
- C preventing rapid setting of cement
- D reduction in the cost of cement

**Answer: C**

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### Question 35

White lung disease is prevalent among the workers of :

- A Paper industry
- B Cement industry
- C Cotton industry
- D Pesticide industry

**Answer: D**

### Question 36

Iodoform is used as an :

- A antipyretic
- B analgesic
- C antiseptic
- D anaesthetic

**Answer: C**

### Question 37

An artificial ecosystem is represented by :

- A pisciculture tank
- B agricultural land
- C zoo
- D aquarium

**Answer: D**

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### Question 38

The constituents of automobile exhaust that can cause cancer is/ are :

- A Oxides of nitrogen
- B Carbon monoxide
- C Polycyclic hydrocarbons
- D Lead

Answer: D

**Question 39**

The optimum dissolved oxygen level (in mg/litre) required for survival of aquatic organisms is :

- A 4 – 6
- B 2 – 4
- C 8 – 10
- D 12 – 16

Answer: A

**Question 40**

The world's only floating national park is situated in :

- A Manipur
- B Kuala Lumpur
- C Bilaspur
- D Dispur

Answer: A

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**Question 41**

According to the latest 'Education Development Index' based on a series of surveys conducted by the National University of Education, Planning and Administration and released in February, 2011, the state with the highest Development Index is :

- A Tamil Nadu
- B Kerala
- C Punjab
- D Gujarat

Answer: B

**Question 42**

Indian Army's Operation 'Saiyam' was related to :

- A Kashmir

- B Indo-China Border in the Central Region
- C North-East
- D Indo-Pak Border in Punjab and Rajasthan

**Answer: D**

**Question 43**

In the Railway Budget for 2011-12, an outlay of 57,630 crore has been announced for adding new lines with length of :

- A 1000 km
- B 1200 km
- C 1300 km
- D 1500 km

**Answer: C**

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**Question 44**

The strong earthquake-cum-tsunami which has moved Japan's main island by a few feet and has caused the Earth's axis to wobble is expected to lead to the shortening of the day by :

- A 1.6 microseconds
- B 2.3 microseconds
- C 3.1 microseconds
- D 3.4 microseconds

**Answer: A**

**Question 45**

The 'Project Snow Leopard' to conserve the endangered species, launched by the Union Ministry of Environment and Forests covers the states of :

- A Jammu & Kashmir and Himachal Pradesh only
- B Jammu & Kashmir, Himachal Pradesh and Uttarakhand only
- C Jammu & Kashmir, Himachal Pradesh, Uttarakhand and Arunachal Pradesh only
- D Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Arunachal Pradesh and Sikkim

**Answer: D**

**Question 46**

The 2018 FIFA World Cup Final was held at :

- A Paris
- B Berlin

C Moscow

D London

**Answer: C**

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### Question 47

Who of the following received Sangeet Natak Akademi's Ustad Bismillah Khan Yuva Puruskar for 2009 in 'Hindustani Vocal Music'?

A Omkar Shrikant Dadarkar

B Ragini Chander Shekar

C Abanti Chakravorty and Sukracharya Rabha

D K. Nellai Manikandan

**Answer: A**

### Question 48

Which folk/tribal dances is associated with Uttar Pradesh?

A Veedhi

B Thora

C Tamasha

D Rauf

**Answer: B**

### Question 49

Which book has been written by Atiq Rahimi?

A Earth and Ashes

B This Savage Rite

C The Red Devil

D Witness the Night

**Answer: A**

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### Question 50

Who is the recipient of the Sahitya Akademi Award 2010 in Hindi Literature category?

A Uday Prakash

B Laxman Dubey

C Nanjil Nandan

D Mangat Badal

Answer: A

Explanation:

ENGLISH COMPREHENSION

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### English

#### Instructions

In the following questions, some 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 there is no error your answer is (d) i.e. No error.

#### Question 51

The future of food companies (a) seems quite secure (b) owed to ever-growing demand. (c) No error. (d)

A The future of food companies

B seems quite secure

C owed to ever-growing demand

D No error

Answer: C

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#### Question 52

The vaccine (a) when hit the Indian market (b) is dogged by controversy. (c) No error. (d)

A The vaccine

B when hit the Indian market

C is dogged by controversy

D No error

Answer: C

#### Question 53

His son (a) is working (b) very hardly. (c) No error. (d)

A His son

B is working

C very hardly

D No error

Answer: C

#### Question 54

Do you know that it was I (a) who has done (b) this piece of beautiful work? (c) No error.(d)

- A Do you know that it was I
- B who has done
- C this piece of beautiful work
- D No error

Answer: B

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### Question 55

The company has ordered (a) some (b) new equipments. (c) No error(d)

- A The company has ordered
- B some
- C new equipments
- D No error

Answer: C

### Instructions

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

### Question 56

The housewife\_\_\_ the cakes burning, and ran to switch off the oven.

- A smell
- B smells
- C smelt
- D smelling

Answer: C

### Question 57

\_\_\_an old legend, King Shirham lived in India.

- A In the event of
- B Due to
- C According to
- D In reference to

Answer: C

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**Question 58**

\_\_\_\_\_you leave now, you will be late.

- A Until
- B Till
- C Unless
- D Although

**Answer: C**

**Question 59**

The \_\_\_\_\_were arrested for illegally hunting the bears.

- A poachers
- B rangers
- C soldiers
- D villagers

**Answer: A**

**Question 60**

If you had followed the rules, you \_\_\_\_\_disqualified.

- A will not be
- B would not be
- C will not have been
- D would not have been

**Answer: D**

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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**

**LOQUACIOUS**

- A Talkative
- B Slow
- C Content
- D Unclear

**Answer: A**



**Question 62**

**VINDICTIVE**

- A Imaginative
- B Accusative
- C Spiteful
- D Aggressive

**Answer: C**

**Question 63**

**INCLEMENT**

- A Selfish
- B Active
- C Unfavourable
- D Inactive

**Answer: C**

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**Question 64**

**GENIAL**

- A Cordial
- B Unselfish
- C Careful
- D Specific

**Answer: A**

**Question 65**

**ACCRUE**

- A Accumulate
- B Accommodate
- C Grow
- D Suffice

**Answer: A**

**Instructions**

In the following questions, out of the four alternatives, choose the word opposite in meaning to the given word.

**Question 66**

**ACCORD**

- A Disagreement
- B Welcome
- C Disrespect
- D Conformity

**Answer: A**

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**Question 67**

**INFIRMITY**

- A Employment
- B Indisposition
- C Strength
- D Weakness

**Answer: C**

**Question 68**

**FEASIBLE**

- A Useful
- B Impractical
- C Uneven
- D Important

**Answer: B**

**Question 69**

**METICULOUS**

- A Forgetful
- B Destructive
- C Careless
- D Flagrant

**Answer: C**

**General Science Notes for SSC CGL**

**Question 70**

**SYNTHETIC**

- A Natural
- B Plastic
- C Cosmetic
- D Apathetic

**Answer: A**

**Instructions**

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

**Question 71**

**A bolt from the blue**

- A a delayed event
- B an inexplicable event
- C an unexpected event
- D an unpleasant event

**Answer: C**

**Question 72**

**Cold comfort**

- A absurdity
- B deception
- C slight satisfaction
- D foolish proposal

**Answer: C**

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**Question 73**

**To be all at sea.**

- A a family voyage
- B lost and confused
- C in the middle of the ocean
- D a string of islands

**Answer: B**

**Question 74**

**To take to one's heels**

- A to walk slowly
- B to run away
- C to march forward
- D to hop and jump

**Answer: B**

**Question 75**

**To bite the dust**

- A eat voraciously
- B have nothing to eat
- C eat roots
- D None of the above

**Answer: D**

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**Instructions**

In the following questions, a sentence or bold part thereof is given which may need improvement. Alternatives are given as (a), (b) and (c) below, which may be a better option. In case no improvement is needed, your answer is (d).

**Question 76**

**He has for good left India.**

- A He has left for good India.
- B He has left India for good.
- C Good he has left India.
- D No improvement

**Answer: B**

**Question 77**

**We are credibly informed that the murderer has given himself up.**

- A We are informed that the murderer has credibly given himself up.
- B We are informed that the murderer has given credibly himself up.
- C We are informed that credibly the murderer has given up himself.
- D No improvement

**Answer: D**

**Question 78**

**We generally select one of the most intelligent student of the school for this award.**

- A one of the most intelligent students of the school
- B one of the intelligent most students of the school
- C one of the intelligent most student of the school
- D No improvement

**Answer: A**

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**Question 79**

**My friend lives in a nearby street whose name I have forgotten.**

- A the name of which
- B which name
- C of which name
- D No improvement

**Answer: A**

**Question 80**

**He both won a medal and a scholarship.**

- A He won a medal and a scholarship both.
- B Both he won a medal and a scholarship.
- C He won both a medal and a scholarship.
- D No improvement

**Answer: C**

**Instructions**

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

**Question 81**

**A post with little work but high salary**

- A Director
- B Trustee
- C Sinecure
- D Ombudsman

**Answer: C**

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Question 82

Something that causes death

- A Dangerous
- B Fatal
- C Brutal
- D Horrible

Answer: B

Question 83

A person who writes decoratively

- A Calligrapher
- B Collier
- C Choreographer
- D Cartographer

Answer: A

Question 84

Pertaining to cattle

- A Canine
- B Feline
- C Bovine
- D Verminous

Answer: C

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Question 85

To look at someone in an angry or threatening way

- A Glower
- B Gnaw
- C Gnash
- D Grind

Answer: A

Instructions

In the following questions, groups of four words are given. In each group, one word is correctly spelt. Find the correctly spelt word.

**Question 86**

- A agnostik
- B accomplice
- C advercity
- D acrimonous

**Answer: B**

**Question 87**

- A dysentery
- B momentery
- C cemetary
- D comentary

**Answer: A**

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**Question 88**

- A ebulient
- B jubilant
- C iminent
- D tolerent

**Answer: B**

**Question 89**

- A malaign
- B arraign
- C asigne
- D degine

**Answer: B**

**Question 90**

- A harrassment
- B embarrasment
- C fulfilment

D denouement

Answer: C

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### Instructions

In the following passage some of the words have been left out. First read the passage over and try to understand what it is about. Then fill in the blanks with the help of the alternatives given.

The Solar System has been a complicated wonder for the astronomers. This is a \_\_\_(1)\_\_\_ to which we may never have the exact answer. Man has wondered \_\_\_(2)\_\_\_ the age of the Earth \_\_\_(3)\_\_\_ ancient times. There were all kinds of \_\_\_(4)\_\_\_ that seemed to have the \_\_\_(5)\_\_\_. But man could not begin to \_\_\_(6)\_\_\_ about the question scientifically until about 400 years \_\_\_(7)\_\_\_. When it was proved that the \_\_\_(8)\_\_\_ revolved round the Sun and the Earth was a \_\_\_(9)\_\_\_ of our Solar System, then scientists knew where to \_\_\_(10)\_\_\_.

### Question 91

(1)

A problem

B question

C matter

D query

Answer: B

### Question 92

(2)

A around

B out

C about

D on

Answer: C

### Question 93

(3)

A since

B during

C around

D from

Answer: A

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### Question 94

(4)



- A ideas
- B opinions
- C stories
- D matters

**Answer: C**

**Question 95**  
(5)

- A solution
- B novel
- C book
- D answer

**Answer: D**

**Question 96**  
(6)

- A read
- B think
- C open
- D guess

**Answer: B**

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**Question 97**  
(7)

- A now
- B time
- C then
- D ago

**Answer: D**

**Question 98**  
(8)

- A Moon
- B time

C Earth

D Mars

Answer: C

Question 99

(9)

A part

B division

C opening

D centre

Answer: A

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Question 100

(10)

A end

B begin

C think

D work

Answer: B

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## Quant

### Instructions

For the following questions answer them individually

Question 101

$$\sqrt{6 + \sqrt{6 + \sqrt{6 + \dots}}} = ?$$

A 2.3

B 3

C 6

D 6.3

Answer: B

### Explanation:

we need to find value of  $\sqrt{6 + \sqrt{6 + \sqrt{6 + \dots}}}$

$$\text{let } \sqrt{6 + \sqrt{6 + \sqrt{6 + \dots}}} = x$$

$$\text{here } x = \sqrt{6 + x}$$

on squaring both sides

$$x^2 - x - 6 = 0$$

$$x = 3, x = -2$$

here -2 will be rejected as square root can not give negative value and hence  $x = 3$

$$\sqrt{6 + \sqrt{6 + \sqrt{6 + \dots}}} = 3$$

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### Question 102

The square root of  $\left(\frac{\sqrt{3} + \sqrt{2}}{\sqrt{3} - \sqrt{2}}\right)$

A  $\sqrt{3} + \sqrt{2}$

B  $\sqrt{3} - \sqrt{2}$

C  $\sqrt{2} \pm \sqrt{3}$

D  $\sqrt{2} - \sqrt{3}$

Answer: A

Explanation:

we need to calculate square root of  $\left(\frac{\sqrt{3} + \sqrt{2}}{\sqrt{3} - \sqrt{2}}\right)$

$$\text{let } \left(\frac{\sqrt{3} + \sqrt{2}}{\sqrt{3} - \sqrt{2}}\right) = y$$

on rationalizing  $y$ , we get

$$y = (\sqrt{2} + \sqrt{3})^2$$

hence square root of  $y \Rightarrow \sqrt{y} = \sqrt{2} + \sqrt{3}$

### Question 103

The remainder when  $3^{21}$  is divided by 5 is

A 1

B 2

C 3

D 4

Answer: C

Explanation:

we need to find remainder of  $3^{21}$  when divided by 5

9 gives a remainder -1 when divided by 5 and hence 10 pairs of 9 can be made from  $3^{21}$  and one 3 will be left which will give 3 as the remainder

and as we know that remainders are distributive in nature the question can be converted to that find remainder of  $\frac{3}{5}$  which is equal to 3

Question 104

$$2 \frac{1}{3} - 1 \frac{1}{3}$$

The value of  $3 +$  is

- A 38/109
- B 109/38
- C 1
- D 116/109

Answer: A

Explanation:

$$2 \frac{1}{3} - 1 \frac{1}{3}$$

$3 +$

$$7 \frac{1}{3} - 3 \frac{1}{3}$$

=

$$77 - 39$$

=

$$38$$

=

$$38$$

=

$$38$$

=

$$109$$

=

so the answer is option A.

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Question 105

The last digit of  $(1001)^{2008} + 1002$  is

- A 0
- B 3
- C 4
- D 6

Answer: B

Explanation:

when we need to find unit digit of any question we focus on unit digits of the given equation

we know if any number ends with 1 then any power of it will give unit digit 1 hence  $1001^{2008}$  will have last digit as 1

and so last digit of  $(1001)^{2008} + 1002 = 1 + 2 = 3$

**Question 106**

The value of  $\frac{3\sqrt{2}}{\sqrt{3}+\sqrt{6}} - \frac{4\sqrt{3}}{\sqrt{6}+\sqrt{2}} + \frac{\sqrt{6}}{\sqrt{3}+\sqrt{2}}$  is

- A 4
- B 0
- C  $\sqrt{2}$
- D  $3\sqrt{6}$

**Answer: B**

**Explanation:**

Expression :  $\frac{3\sqrt{2}}{\sqrt{3}+\sqrt{6}} - \frac{4\sqrt{3}}{\sqrt{6}+\sqrt{2}} + \frac{\sqrt{6}}{\sqrt{3}+\sqrt{2}}$

$$= \frac{3\sqrt{2}(\sqrt{6}+\sqrt{2})(\sqrt{3}+\sqrt{2}) - 4\sqrt{3}(\sqrt{3}+\sqrt{6})(\sqrt{3}+\sqrt{2}) + \sqrt{6}(\sqrt{3}+\sqrt{6})(\sqrt{6}+\sqrt{2})}{(\sqrt{3}+\sqrt{6})(\sqrt{6}+\sqrt{2})(\sqrt{3}+\sqrt{2})}$$

$$= \frac{1}{(\sqrt{3}+\sqrt{6})(\sqrt{6}+\sqrt{2})(\sqrt{3}+\sqrt{2})} \times [3\sqrt{2}(\sqrt{18} + \sqrt{12} + \sqrt{6} + \sqrt{4}) - 4\sqrt{3}(\sqrt{9} + \sqrt{6} + \sqrt{18} + \sqrt{12}) + \sqrt{6}(\sqrt{18} + \sqrt{6} + \sqrt{36} + \sqrt{12})]$$

$$= \frac{1}{(\sqrt{3}+\sqrt{6})(\sqrt{6}+\sqrt{2})(\sqrt{3}+\sqrt{2})} \times [3\sqrt{2}(3\sqrt{2} + 2\sqrt{3} + \sqrt{6} + 2) - 4\sqrt{3}(3 + \sqrt{6} + 3\sqrt{2} + 2\sqrt{3}) + \sqrt{6}(3\sqrt{2} + \sqrt{6} + 6 + 2\sqrt{3})]$$

$$= \frac{1}{(\sqrt{3}+\sqrt{6})(\sqrt{6}+\sqrt{2})(\sqrt{3}+\sqrt{2})} \times [(18 + 6\sqrt{6} + 6\sqrt{3} + 6\sqrt{2}) + (-12\sqrt{3} - 12\sqrt{2} - 12\sqrt{6} - 24) + (6\sqrt{3} + 6 + 6\sqrt{6} + 6\sqrt{2})]$$

$$= \frac{1}{(\sqrt{3}+\sqrt{6})(\sqrt{6}+\sqrt{2})(\sqrt{3}+\sqrt{2})} \times [(18 + 6 - 24) + (6\sqrt{2} - 12\sqrt{2} + 6\sqrt{2}) + (6\sqrt{3} - 12\sqrt{3} + 6\sqrt{3}) + (6\sqrt{6} - 12\sqrt{6} + 6\sqrt{6})]$$

$$= \frac{1}{(\sqrt{3}+\sqrt{6})(\sqrt{6}+\sqrt{2})(\sqrt{3}+\sqrt{2})} \times 0 = 0$$

=> Ans - (B)

**Question 107**

If  $x * y = (x + 3)^2(y - 1)$ , then the value of  $5 * 4$  is

- A 192
- B 182
- C 180
- D 172

**Answer: A**

**Explanation:**

it is given that  $x * y = (x + 3)^2(y - 1)$

we need to calculate

$$5 * 4 = (5 + 3)^2 \times (4 - 1)$$

$$= 64 \times 3$$

$$= 192$$

**Question 108**

$(0.05)^2 + (0.41)^2 + (0.073)^2$   
 $(0.005)^2 + (0.041)^2 + (0.0073)^2$  is

- A 10
- B 100
- C 1000
- D None of these

**Answer: B**

**Explanation:**

we need to calculate  $\frac{(0.05)^2 + (0.41)^2 + (0.073)^2}{(0.005)^2 + (0.041)^2 + (0.0073)^2}$

here we know

$$0.005 = 0.05/10$$

$$0.041 = 0.41/10$$

$$0.0073 = 0.073/10$$

$$\text{hence, } \frac{(0.05)^2 + (0.41)^2 + (0.073)^2}{((0.05)/10)^2 + ((0.41)/10)^2 + ((0.073)/10)^2} = 100$$

**Question 109**

If  $9\sqrt{x} = \sqrt{12} + \sqrt{147}$ , then  $x = ?$

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

**Answer: B**

**Explanation:**

given that  $9\sqrt{x} = \sqrt{12} + \sqrt{147}$

$$\sqrt{12} = 2\sqrt{3}$$

$$\sqrt{147} = 7\sqrt{3}$$

hence,

$$9\sqrt{x} = (2 + 7)\sqrt{3}$$

hence  $x = 3$

**Question 110**

$\sqrt{1 - \frac{127}{343}}$  is equal to

- A  $5/9$
- B  $1 - 1/7$
- C  $4/7$
- D  $1 - 2/7$

Answer: B

Explanation:

$$\begin{aligned}\sqrt{1 - \frac{127}{343}} &= \sqrt{\frac{343-127}{343}} \\ &= \sqrt{\frac{216}{343}} \\ &= \frac{6}{7} \\ &= 1 - \frac{1}{7}\end{aligned}$$

## SSC CGL Important Questions PDF

Question 111

If the sum of two numbers be multiplied by each number separately, the products so obtained are 247 and 114. The sum of the numbers is

- A 19
- B 20
- C 21
- D 23

Answer: A

Explanation:

$$\text{sum} \times \text{1st number} = 247 = 19 \times 13$$

$$\text{sum} \times \text{2nd number} = 114 = 19 \times 6$$

hence sum of number = 19 as  $(13 + 6 = 19)$

Question 112

Find a number, one-seventh of which exceeds its eleventh part by 100.

- A 1925
- B 1825
- C 1540
- D 1340

Answer: A

Explanation:

let the number be  $y$

it is given that

$$\frac{y}{7} = \frac{y}{11} + 100$$

$$\frac{4y}{77} = 100$$

$$y = 1925$$

Question 113

The L.C.M. of three different numbers is 120. Which of the following cannot be their H.C.F.?

- A 8
- B 12
- C 24
- D 35

**Answer:** D

**Explanation:**

if the LCM and HCF of same numbers are calculated then HCF should be a factor of LCM

and here LCM is given as 120 and here options which are 8 , 12, and 24 all these three are factors of LCM and hence can be the HCF but 35 is not a factor of 120 and hence can not be the HCF of the given numbers.

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**Question 114**

A number when divided by 49 leaves 32 as remainder. This number when divided by 7 will have the remainder as

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

**Answer:** A

**Explanation:**

It is given that when the number is divided by 49 it leaves the remainder 32 . Let the number be N

hence  $N = 49k + 32$  form

now when N is divided by 7 it will leave the remainder 4 as 49 is divisible by 7 so only 32 will determine the remainder of this question

**Question 115**

In an examination a student scores 4 marks for every correct answer and loses 1 mark for every wrong answer. If he attempts all 75 questions and secures 125 marks, the number of questions he attempts correctly is

- A 35
- B 40
- C 42
- D 46

**Answer:** B

**Explanation:**

let the number of correct questions be y

and hence incorrect will be  $75 - y$  as total questions are 75

it is given that a student scores 4 marks for every correct answer and loses 1 mark for every wrong answer

hence  $4y - 1(75 - y) = 125$

$5y - 75 = 125$

$5y = 200$



y = 40

**Question 116**

The traffic lights at three different road crossings change after 24 seconds, 36 seconds and 54 seconds respectively. If they all change simultaneously at 10 : 15 :00 AM, then at what time will they again change simultaneously?

- A 10 : 16 : 54 AM
- B 10 : 18 : 36 AM
- C 10 : 17 : 02 AM
- D 10 : 22 : 12 AM

**Answer: B**

**Explanation:**

The LCM of 24 seconds, 36 seconds and 54 seconds will give the next instance when all the three lights will change simultaneously. LCM of 24, 36 and 54 is 216.

216 seconds is equal to 3 minutes and 36 seconds.

The next instance when all the three lights will change simultaneously is 3 minutes and 36 seconds after 10 : 15 :00 AM which is at 10 : 18 : 36 AM.

Hence Option B is the correct answer.

**General Science Notes for SSC CGL**

**Question 117**

A can do a work in 12 days. When he had worked for 3 days, B joined him. If they complete the work in 3 more days, in how many days can B alone finish the work?

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

**Answer: A**

**Explanation:**

Let the rate of work done by A and B  $\frac{1}{A}$  and  $\frac{1}{B}$

$$\frac{1}{A} = \frac{1}{12}$$

$$\text{Work done by A in 3 days} = 3 \times \frac{1}{12} = \frac{3}{12} = \frac{1}{4}$$

In 3 more days A and B together completed the remaining  $\frac{3}{4}$ th of the work.

$$3 \times \left( \frac{1}{A} + \frac{1}{B} \right) = \frac{3}{4}$$

$$\left( \frac{1}{A} + \frac{1}{B} \right) = \frac{1}{4}$$

$$\left( \frac{1}{12} + \frac{1}{B} \right) = \frac{1}{4}$$

$$\frac{1}{B} = \frac{1}{4} - \frac{1}{12}$$

$$\frac{1}{B} = \frac{3-1}{12} = \frac{2}{12} = \frac{1}{6}$$

B alone can complete the work in 6 days.

Hence Option A is the correct answer.

**Question 118**

A and B can complete a piece of work in 8 days, B and C can do it in 12 days, C and A can do it in 8 days. A, B and C together can complete it in

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

**Answer: C**

**Explanation:**

Let the rate of work done by A, B and C be  $\frac{1}{A}$ ,  $\frac{1}{B}$  and  $\frac{1}{C}$

$$\left(\frac{1}{A} + \frac{1}{B}\right) = \frac{1}{8} \text{ ----- 1}$$

$$\left(\frac{1}{B} + \frac{1}{C}\right) = \frac{1}{12} \text{ ----- 2}$$

$$\left(\frac{1}{A} + \frac{1}{C}\right) = \frac{1}{8} \text{ ----- 3}$$

Adding 1, 2 and 3

$$2 \times \left(\frac{1}{A} + \frac{1}{B} + \frac{1}{C}\right) = \frac{1}{8} + \frac{1}{12} + \frac{1}{8} = \frac{1}{4} + \frac{1}{12} = \frac{1}{3}$$

$$\left(\frac{1}{A} + \frac{1}{B} + \frac{1}{C}\right) = \frac{1}{6}$$

It takes 6 days for all to complete the work.

Hence Option C is the correct answer.

**Question 119**

**X is 3 times as fast as Y and is able to complete the work in 40 days less than Y. Then the time in which they can complete the work together is**

- A 15 days
- B 10 days
- C 7 days
- D 5 days

**Answer: A**

**Explanation:**

Let the number of days taken by Y to complete the work be "a".

Since X is three times as fast as Y Work completed per day by X is given by

$$\frac{1}{X} = \frac{3}{Y}$$

$$aY = 1 \text{ ----- 1}$$

Since X takes 40 days less time than Y

$$(a - 40) \frac{1}{X} = 1 \text{ ----- 2}$$

Replacing  $\frac{1}{X}$  in 2 and solving for "a" we get

a=60 days.

Substituting a in 1 and 2 we get

$$\frac{1}{X} = \frac{1}{20}$$

$$Y = 60$$

Let the number of days it takes when both X and Y are working together be n.

$$n \times \left(\frac{1}{X} + \frac{1}{Y}\right) = 1$$

$$n \times \left(\frac{1}{20} + \frac{1}{60}\right) = 1$$

$$n = 15$$

Hence Option A is the correct answer.

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**Question 120**

A copper wire is bent in the shape of a square of area  $81\text{cm}^2$ . If the same wire is bent in the form of a semicircle, the radius (in cm) of the semicircle is

- A 16
- B 14
- C 10
- D 7

**Answer:** D

**Explanation:**

Area of square of side 'a' =  $81$  i.e.  $a = 9\text{cm}$   
length of this wire will be =  $4a = 36\text{cm}$   
perimeter of square = perimeter of semi-circle  
 $36 = \pi r + 2r$   
 $r = 7\text{cm}$

**Question 121**

The volume (in  $\text{m}^3$ ) of rain water that can be collected from 1.5 hectares of ground in a rainfall of 5 cm is

- A 75
- B 750
- C 7500
- D 75000

**Answer:** B

**Explanation:**

1 hectare =  $10000\text{ sq. m}$   
1.5 hectare =  $15000\text{ sq. m}$   
5 cm =  $0.05\text{ m}$   
Volume of rain collected =  $15000 \times 0.05 = 750\text{ cu. m}$   
Hence Option B is the correct answer.

**Question 122**

A river 3 m deep and 40 m wide is flowing at the rate of 2 km per hour. How much water (in litres) will fall into the sea in a minute?

- A 4,00,000
- B 40,00,000
- C 40,000
- D 4,000

**Answer:** B

**Explanation:**

Speed =  $2\text{km/hr} = \frac{100}{3}\text{ m/min}$   
Volume of water flowing into sea = Depth of river  $\times$  Width of River  $\times$  Rate of flow  
 $= 3 \times 40 \times \frac{100}{3} = 4000\text{m}^3$   
 $1\text{m}^3 = 1000\text{ litres}$

Volume of water flowing into sea = 40,00,000 litres  
Hence Option B is the correct answer.

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### Question 123

A bicycle wheel makes 5000 revolutions in moving 11km. Then the radius of the wheel (in cm) is

- A 70
- B 35
- C 17.5
- D 140

Answer: B

#### Explanation:

The distance of 11km is covered by the perimeter of tyre by 5000 revolutions.

Hence,  $11 \times 1000 \times 100 = 5000 \times \pi D$

$D = 70\text{cm}$

$r = 35\text{cm}$

### Question 124

The perimeter of a triangle is 40cm and its area is  $60\text{ cm}^2$ . If the largest side measures 17cm, then the length (in cm) of the smallest side of the triangle is

- A 4
- B 6
- C 8
- D 15

Answer: C

#### Explanation:

Given that,  $a+b+c = 40$ . So,  $s = \frac{a+b+c}{2} = 20$ . Also,  $17+b+c = 40$  i.e.  $b+c = 23$  i.e.  $c=23-b$

$\text{Area} = 60 = \sqrt{s(s-a)(s-b)(s-c)} = \sqrt{20(20-17)(20-b)(20-(23-b))}$

$b=8$

### Question 125

A shopkeeper allows a discount of 10% to his customers and still gains. 20%. Find the marked price of the article which costs 450.

- A 600
- B 540
- C 660
- D 580

Answer: A

#### Explanation:

CP = 450

$$\begin{aligned}
 MP &= x \\
 SP &= 0.9x \\
 \text{gain} &= 20\% = \frac{SP-CP}{CP} \\
 0.2 &= \frac{0.9x-450}{450} \\
 x &= 600
 \end{aligned}$$

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### Question 126

What single discount is equivalent to two successive discounts of 20% and 15%?

- A 35%
- B 32%
- C 34%
- D 30%

**Answer: B**

**Explanation:**

$$\text{equivalent discount} = 1 - \{(1 - 0.2)(1 - 0.15)\} = 0.32$$

### Question 127

In a business partnership among A, B, C and D, the profit is shared as follows:

$$\begin{array}{l}
 \text{A's share} \quad \text{B's share} \quad \text{C's share} \quad 1 \\
 \text{B's share} = \text{C's share} = \text{D's share} = 3
 \end{array}$$

If the total profit is 4,00,000, the share of C is

- A 1,12,500
- B 1,37,500
- C 90,000
- D 2,70,000

**Answer: C**

**Explanation:**

$$\begin{array}{l}
 \text{A's share} \quad \text{B's share} \quad \text{C's share} \quad 1 \\
 \text{B's share} = \text{C's share} = \text{D's share} = 3
 \end{array}$$

$$\frac{\text{A's share}}{\text{B's share}} = \frac{1}{3} \text{ i.e. } A = \frac{1}{3} B$$

$$\frac{\text{B's share}}{\text{C's share}} = \frac{1}{3} \text{ i.e. } B = \frac{1}{3} C$$

$$\frac{\text{C's share}}{\text{D's share}} = \frac{1}{3} \text{ i.e. } D = \frac{3}{1} C$$

If the total profit is 4,00,000, then  $A+B+C+D = 400000$

$$\frac{1}{3} \times \frac{1}{3} C + \frac{1}{3} C + \frac{3}{1} C = 400000$$

$$C = 90000$$

**Question 128**

A can contains a mixture of two liquids A and B in the ratio 7 : 5. When 9 litres of mixture are drawn off and the can is filled with B, the ratio of A and B becomes 7 : 9. Litres of liquid A contained by the can initially was

- A 10
- B 20
- C 21
- D 25

**Answer:** C

**Explanation:**

$$\frac{QNR}{total} = \frac{QNR(initial)}{total} \left(1 - \frac{\text{Replaced Quantity}}{total}\right)$$

QNR is the quantity which has not entered again

so here QNR is A

$$\frac{A}{12y} = \frac{7y}{12y} \left(1 - \frac{9}{12y}\right)$$

$$A = \frac{7}{4} (4y - 3)$$

$$B = 12y - 7y + 5.25 = 5y + 5.25$$

$$\frac{\frac{7}{4}(4y-3)}{5y+5.25} = \frac{7}{9}$$

$$y = \frac{7}{4}$$

$$\text{so volume} = 12y = 21 \text{ ltr}$$

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**Question 129**

What number should be added to or subtracted from each term of the ratio 17 : 24 so that it becomes equal to 1 : 2 ?

- A 5 is subtracted
- B 10 is added
- C 7 is added
- D 10 is subtracted

**Answer:** D

**Explanation:**

let the number needed to be subtracted from 17:24 be y

hence

$$\frac{17-y}{24-y} = \frac{1}{2}$$

$$34 - 2y = 24 - y$$

$$y = 10$$

**Question 130**

The ratio of weekly incomes of A and B is 9 : 7 and the ratio of their expenditures is 4 : 3. If each saves 200 per week, then the sum of their weekly incomes is

- A 3,200
- B 4,200
- C 4,800
- D 5,600

**Answer: A**

**Explanation:**

let the income of A and B be  $9z$  and  $7z$

and the expenditure be A and B  $4a$  and  $3a$

$$9z - 4a = 200$$

$$7z - 3a = 200$$

solving both equations, we get

$$z = 200$$

$$a = 400$$

income of A and B are 1800 and 1400 and hence sum = 3200

**Question 131**

**Among three numbers, the first is twice the second and thrice the third. If the average of the three numbers is 49.5, then the difference between the first and the third number is**

- A 54
- B 28
- C 39.5
- D 41.5

**Answer: A**

**Explanation:**

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

here average of three numbers = 49.5

$$\text{Sum} = 49.5 \times 3 = 148.5$$

let the first number be  $y$  and hence 2nd number be  $y/2$  and third number be  $y/3$

$$\text{here, } y + y/2 + y/3 = 148.5$$

$$11y/6 = 148.5$$

$$1\text{st number} = y = 13.5 \times 6 = 81$$

$$3\text{rd number} = y/3 = 27$$

$$\text{difference between 1st and 2nd number} = 81 - 27 = 54$$

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**Question 132**

**The mean of 50 numbers is 30. Later it was discovered that two entries were wrongly entered as 82 and 13 instead of 28 and 31. Find the correct mean.**

- A 36.12

- B 30.66
- C 29.28
- D 38.21

Answer: C

**Explanation:**

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

it is given that mean of 50 numbers = 30

$$\text{Sum of 50 numbers} = 50 \times 30 = 1500$$

$$\text{Corrected Sum} = 1500 - (82 + 13) + (28 + 31) = 1464$$

$$\text{New and corrected average} = \frac{1464}{50} = 29.28$$

**Question 133**

If the selling price of 10 articles is equal to the cost price of 11 articles, then the gain percent is

- A 10
- B 11
- C 15
- D 25

Answer: A

**Explanation:**

If the selling price of 10 articles is equal to the cost price of 11 articles, then  $10SP = 11CP$  i.e.  $SP = \frac{11}{10} \times CP$

$$\begin{aligned} \text{gain\%} &= \frac{SP - CP}{CP} \times 100 \\ &= \frac{\frac{11}{10}CP - CP}{CP} \times 100 \\ &= 10\% \end{aligned}$$

**Question 134**

While selling a watch, a shopkeeper gives a discount of 5%. If he gives a discount of 6%, he earns 15 less as profit. What is the marked price of the watch?

- A 1,250
- B 1,400
- C 1,500
- D 750

Answer: C

**Explanation:**

Let the marked price be Rs. x

$$95\% \text{ of } x - 94\% \text{ of } x = 15$$

$$1\% \text{ of } x = 15$$

$$x = 15 \times 100 / 1 = 1500$$

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**Question 135**

Krishna purchased a number of articles at '10 for each and the same number for 14 each. He mixed them together and sold them for 13 each. Then his gain or loss percent is

- A Loss  $8\frac{1}{3}\%$
- B Gain  $8\frac{2}{3}\%$
- C Loss  $8\frac{2}{3}\%$
- D Gain  $8\frac{1}{3}\%$

**Answer: D**

**Explanation:**

Since, equal no. of articles are bought .

$$\text{Avg price} = \frac{10+14}{2} = 12$$

But SP = 13

$$\text{Change\%} = \frac{13-12}{12}$$

$$= \text{Gain } 8\frac{1}{3}\%$$

**Question 136**

A trader bought two horses for 19,500. He sold one at a loss of 20% and the other at a profit of 15%. If the selling price of each horse is the same, then their cost prices are respectively.

- A 10,000 and 9,500
- B 11,500 and 8,000
- C 12,000 and 7,500
- D 10,500 and 9,000

**Answer: B**

**Explanation:**

Let CP of one horse = x, then of other = 19500 - x

Given ,One is sold at loss of 20%, other at 15% gain. SP is same

$$\text{So, } 100 \times x = 100 \times (19500 - x)$$

$$80x + 115x = 115 \times 19500$$

$$x = 115 \times 19500 / 195$$

$$= 11500$$

Therefore, 19500-x = 8000

**Question 137**

The cost price of an article is 40% of the selling price. What percent of the cost price is the selling price?

- A 140%
- B 200%
- C 220%
- D 250%

**Answer: D**

**Explanation:**

it is given that the cost price of an article is 40% of the selling price

$$CP = 0.4 SP$$

$$SP = 2.5 CP$$

as here SP is 2.5 times of CP, it means that Selling Price is 250% of CP

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### Question 138

If 90% of A = 30% of B and B = (2x)% of A, then the value of x is

- A 450
- B 400
- C 300
- D 150

**Answer: D**

#### Explanation:

it is given that 90% of A = 30% of B

$$\frac{90}{100} A = \frac{30}{100} B$$

$$B = 3A$$

it means B is 300 % of A

hence B = (2 x 150)% of A

so x = 150 %

### Question 139

When the price of sugar decreases by 10%, a man could buy 1 kg more for 270. Then the original price of sugar per kg is

- A 25
- B 30
- C 27
- D 32

**Answer: B**

#### Explanation:

let the original price be Rs y and original quantity purchased be z kg

here it is given that When the price of sugar decreases by 10%, a man could buy 1 kg more for 270

$$y \times z = 270 \dots\dots(1)$$

$$0.9y \times (z + 1) = 270 \dots\dots(2)$$

Solving equations 1 and 2, we get,

$$243 + 0.9y = 270$$

$$0.9y = 27$$

$$y = \text{Rs } 30$$

**Question 140**

If the price of sugar is raised by 25%, find by how much percent a householder must reduce his consumption of sugar so as not to increase his expenditure?

- A 10
- B 20
- C 18
- D 25

**Answer: B**

**Explanation:**

let the initial cost sugar be Rs  $y$  and initial amount bought be  $z$  kg

hence total expenditure = Rs  $yz$

now price of sugar is increased by 25% hence new price = Rs  $1.25y$

let the new consumption be  $m$  kg

so  $1.25y \times m = yz$

$m = 0.8z$

hence consumption should be reduce by 20% to neutralize the effect of price rise

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**Question 141**

If 30% of A is added to 40% of B, the answer is 80% of B. What percentage of A is B?

- A 30%
- B 40%
- C 70%
- D 75%

**Answer: D**

**Explanation:**

it is given that

$$0.3A + 0.4B = 0.8B$$

$$0.3A = 0.4B$$

$$A = \frac{4}{3}B$$

$$B = \frac{3}{4}A$$

hence B is 75% of A

**Question 142**

A man can row 6 km/h in still water. If the speed of the current is 2 km/h, it takes 3 hours more in upstream than in the downstream for the same distance. The distance is

- A 30 km
- B 24 km

C 20 km

D 32 km

**Answer: B**

**Explanation:**

Speed in still water =  $6\text{ km/h}$

Speed in upstream =  $6 - 2 = 4\text{ km/h}$

Speed in downstream =  $6 + 2 = 8\text{ km/h}$

Distance =  $d$

Time taken while going downstream =  $t$  hours

Time taken while going upstream =  $t+3$  hours

Since the distance is same

$$8 \times t = 4 \times (t + 3) = 4t + 12$$

$$4t = 12$$

$$t = 3\text{ hours}$$

Distance = Speed in downstream  $\times$  Time taken while going downstream

$$= 8 \times 3$$

$$= 24\text{ km}$$

Hence Option B is the correct answer.

**Question 143**

A student goes to school at the rate of  $2.5\text{ km/h}$  and reaches 6 minutes late. If he travels at the speed of  $3\text{ km/h}$ , he is 10 minutes early. The distance (in km) between the school and his house is

A 5

B 4

C 3

D 1

**Answer: B**

**Explanation:**

When speed is  $2.5\text{ km/hour}$  time =  $t + (6/60)$  hours

When speed is  $3\text{ km/hour}$  time is  $t - (10/60)$  hours

Distance is same. Hence the product of speed and time must be same.

$$2.5(t + (6/60)) = 3(t - (10/60))$$

$$2.5t + (15/60) = 3t - (30/60)$$

$$0.5t = (15/60) + (30/60)$$

$$0.5t = 45/60\text{ hours}$$

$$t = 3/2\text{ hours}$$

$$\text{Distance} = 3(t - (10/60))$$

$$= 3t - (30/60)$$

$$= 3(3/2) - (30/60) = (9/2) - (1/2) = (8/2) = 4\text{ kms}$$

Hence Option B is the correct answer.

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**Question 144**

A sum of money placed at compound interest doubles itself in 4 years. In how many years will it amount to four times itself ?

A 12 years

B 13 years

C 8 years

D 16 years

**Answer: C**

**Explanation:**

it is given that A sum of money placed at compound interest doubles itself in 4 years

here we need to make the money 4 times

imagine that we invested Rs P

and hence ,

P becomes 2P in 4 years and so this 2P will become 4P in another 4 years and hence total 8 years are required to make Rs P → Rs 4P

**Question 145**

**The simple interest on a sum for 5 years is one fourth of the sum. The rate of interest per annum is**

A 5%

B 6%

C 4%

D 8%

**Answer: A**

**Explanation:**

it is given that simple interest on a sum for 5 years is one fourth of the sum

let the sum be Rs P

and rate of interest be R%

$$\text{so SI} = \frac{PRT}{100}$$

T = 5 years

$$\frac{P}{4} = \frac{PR \cdot 5}{100}$$

R = 5%

**Question 146**

**The difference between the compound interest and simple interest on 10,000 for 2 years is 25. The rate of interest per annum is**

A 5%

B 7%

C 10%

D 12%

**Answer: A**

**Explanation:**

$$\text{Difference between CI and SI for 2 years} = \frac{PR^2}{100^2}$$

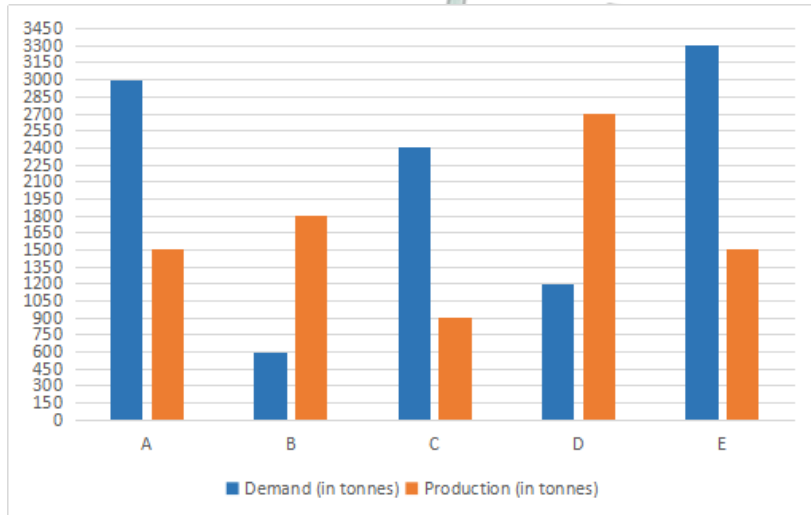
$$\frac{PR^2}{100^2} = 25$$

P = 10000

using the given values we get R(rate of interest) = 5%

### Instructions

The following graph shows the demand and production of cotton by 5 companies A, B, C, D and E. Study the graph and answer questions BAR DIG



### Question 147

What is the ratio of companies having more demand than production to those having more production than demand?

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

Answer: C

### Explanation:

the companies having more demand than production are A, C & E.

the companies having more production than demand are B, D.

so the ratio = 3 : 2

so the answer is option C.

### Question 148

What is the difference (in tonnes) between average demand and average production of the five companies taken together?

- A 320
- B 420
- C 2100
- D 1050

Answer: B

### Explanation:

$$\text{average demand} = \frac{3000+600+2400+1200+3300}{5} = \frac{10500}{5} = 2100$$

$$\text{average production} = \frac{1500+1800+900+2700+1500}{5} = \frac{8400}{5} = 1680$$

$$\text{difference} = 2100 - 1680 = 420$$

so the answer is option B.

**Question 149**

The production of company D is how many times that of the production of the company A?

- A 1.8
- B 1.5
- C 0.5
- D 0.4

**Answer: A**

**Explanation:**

The production of company D = 2700

The production of company A = 1500

$$\text{answer} = \frac{2700}{1500} = 1.8$$

so the answer is option A.

**125 SSC CGL Mocks for just Rs. 199**

**Question 150**

The demand for company B is what percent of the demand for company C?

- A 1.5
- B 2.5
- C 25
- D 30

**Answer: C**

**Explanation:**

The demand for company B = 600

The demand for company C = 2400

$$\text{percentage} = \frac{600}{2400} \times 100 = 25\%$$

so the answer is option C.

**SSC CGL Previous Papers (DOWNLOAD PDF)**

**Reasoning**

**Instructions**

For the following questions answer them individually

**Question 151**

Fish : Scales :: Bear : ?

- A Feathers
- B Leaves

- C Fur
- D Skin

**Answer:** C

**Explanation:**

Scale is the outer layer of fish skin, similarly outer layer of a bear's body is made of fur.

=> Ans - (C)

## 25 SSC CHSL Mocks for just Rs. 149

**Question 152**

**Writer : Pen :: ?**

- A Needle : Tailor
- B Artist : Brush
- C Painter : Canvas
- D Teacher : Class

**Answer:** C

**Explanation:**

A writer does his work with a pen, similarly a painter does his work on a canvas.

=> Ans - (C)

**Question 153**

**NUMERAL : UEALRMN :: ALGEBRA : ?**

- A LRBAGEA
- B BARLAGE
- C LERAGBA
- D LERABGA

**Answer:** D

**Explanation:**

Expression = NUMERAL : UEALRMN

The letters at odd position (starting from left) are written in reverse order at the end of the code, while the letters at even position are written as it is at the start of the code.

Letters at even position = UEA -> UEA (placed at the beginning)

Letters at odd position of the NUMERAL = NMRL -> LRMN (placed at the end)

Similarly, for ALGEBRA :

Letters at even position = LER -> LER

Odd position = AGBA -> ABGA

Thus, ALGEBRA : **LERABGA**

=> Ans - (D)

**Question 154**

**BDAC : FHEG :: NPMO : ?**



A RQTS

B QTRC

C TRQS

D RTQS

**Answer:** D

**Explanation:**

Expression = BDAC : FHEG

The pattern followed is :

B	D	A	C
(+4)	(+4)	(+4)	(+4)
F	H	E	G

Similarly, for NPMO :

N	P	M	O
(+4)	(+4)	(+4)	(+4)
R	T	Q	S

=> Ans - (D)

## SSC CGL Tier-2 Previous Papers PDF

**Question 155**

FGHI : OPQR :: BCDE : ?

A KLMJ

B KLMN

C IUVW

D STUW

**Answer:** B

**Explanation:**

Expression = FGHI : OPQR

The pattern followed is :

F	G	H	I
(+9)	(+9)	(+9)	(+9)
O	P	Q	R

Similarly, for BCDE :

B	C	D	E
(+9)	(+9)	(+9)	(+9)
K	L	M	N

=> Ans - (B)

**Question 156**

PNLJ : IGEC :: VTRP : ?

A OMKI

B RSTU

C QSRC

D RPOM

Answer: A

**Explanation:**

Expression = PNLJ : IGEC

The pattern followed is :

P	N	L	J
(-7)	(-7)	(-7)	(-7)
I	G	E	C

Similarly, for VTRP :

V	T	R	P
(-7)	(-7)	(-7)	(-7)
O	M	K	I

=> Ans - (A)

**Question 157**

17 : 60 :: 20

A 57

B 69

C 81

D 93

Answer: B

**Explanation:**

Expression = 17 : 60 :: 20

The pattern followed is =  $n : 3n + 9$

Eg = 17 :  $17 \times 3 + 9 = 17 : 60$

Similarly,  $(20 \times 3) + 9 = 60 + 9 = 69$

=> Ans - (B)

## SSC CGL Important Questions PDF

**Question 158**

6 : 64 :: 11 : ?

A 144

B 169

C 121

D 124

Answer: B

**Explanation:**

Expression = 6 : 64 :: 11 : ?

The pattern followed is  $n : (n + 2)^2$

Eg  $= 6 : (6 + 2)^2 = 6 : 64$

Similarly,  $(11 + 2)^2 = (13)^2 = 169$

=> Ans - (B)

**Question 159**

123 : 4 :: 726 : ?

A 23

B 26

C 14

D 12

**Answer: D**

**Explanation:**

Expression = 123 : 4 :: 726 : ?

The pattern followed is that the second number in the pair is obtained when the first two digits of first number are divided by third digit of first number.

Eg :-  $\frac{12}{3} = 4$

Similarly,  $\frac{72}{6} = 12$

=> Ans - (D)

**Instructions**

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

**Question 160**

A Flute

B Violin

C Guitar

D Sitar

**Answer: A**

**Explanation:**

Violin, Guitar and Sitar are sting instruments, hence Violin is the odd one out.

=> Ans - (A)

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**Question 161**

A Prod

B Sap

C Jab

D Thrust

**Answer: B**

**Explanation:**

Pro, jab and thrust are synonyms which mean to push, hence sap which means deplete is the odd one.

=> Ans - (B)

**Question 162**

A JKOP

B MNST

C CABD

D OPWX

**Answer: C**

**Explanation:**

In each term, the two pairs are combination of 2 consecutive alphabets from English alphabetical series.

(A) : JK , OP

(B) : MN , ST

(C) : CABD

(D) : OP , WX

=> Ans - (C)

**Question 163**

A CAFD

B TSWV

C IGLJ

D OMRP

**Answer: B**

**Explanation:**

(A) : C (-2 letters) = A (+5 letters) = F (-2 letters) = D

(B) : T (-1 letter) = S (+4 letters) = W (-1 letter) = V

(C) : I (-2 letters) = G (+5 letters) = L (-2 letters) = J

(D) : O (-2 letters) = M (+5 letters) = R (-2 letters) = P

=> Ans - (B)

**General Science Notes for SSC CGL**

**Question 164**

A 162

B 405

C 567

D 644

**Answer: D**

**Explanation:**

Apart from 644, all other given numbers are multiples of 9.

=> Ans - (D)

**Question 165**

- A 156
- B 201
- C 273
- D 345

**Answer:** A

**Explanation:**

Among the given numbers, only 156 is even and also a multiple of 6, hence it is the odd one out.

=> Ans - (A)

**Question 166**

- A ABFGJK
- B ACFJOU
- C MPQSTV
- D ADFHJL

**Answer:** B

**Explanation:**

Only in the second option, a specific pattern is observed.

(B) : A (+2 letters) = C (+3 letters) = F (+4 letters) = J (+5 letters) = O (+6 letters) = U

But in all other options, no specific pattern is observed.

=> Ans - (B)

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**Instructions**

For the following questions answer them individually

**Question 167**

Find out the pair of numbers that does not belong to the group for lack of common property.

- A 11-115
- B 10-90
- C 9-72
- D 8-56

**Answer:** A

**Explanation:**

The second number is divisible by the first number in all the options but the first.

$$(A) : \frac{115}{11} = 10.45$$

$$(B) : \frac{90}{10} = 9$$

(C):  $\frac{7^2}{9} = 8$

(D):  $\frac{5^6}{8} = 7$

=> Ans - (A)

**Instructions**

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

**Question 168**

1. Major
2. Captain
3. Colonel
4. Brigadier
5. Lt. General

A 5, 4, 3, 1, 2

B 5, 1, 4, 2, 3

C 4, 5, 1, 3, 2,

D 3, 4, 2, 5, 1

**Answer: A**

**Explanation:**

Descending order :

Lt. General -> Brigadier -> Colonel -> Major -> Captain

=> 5,4,3,1,2

Ans - (A)

**Question 169**

Arrange the following words as per order in the dictionary

1. Dissident
2. Dissolve
3. Dissent
4. Dissolute
5. Dissolution

A 3,1,4,5,2

B 3,2,1,4,5

C 3,1,4,2,5

D 3,2,4,5,1

**Answer: A**

**Explanation:**

According to the dictionary,

Dissent -> Dissident -> Dissolute -> Dissolution -> Dissolve

=> 3,1,4,5,2

Ans - (A)

**Question 170**

Which one-set of letters when sequentially placed at the gaps in the given letter series shall complete it? \_cb\_cab\_baca\_cba\_a

- A cabcb
- B abccb
- C bacbc
- D bcaba

**Answer:** C

**Explanation:**

The pattern followed is that in a group of 6 letters, the term 'bcbacā' is repeated.

= bcbaca bcbaca bcbaca

=> Ans - (C)

**Instructions**

In each of the following questions, a series is given, with one/two terms(s) missing. Choose the correct alternative from the given ones that will complete the series.

**Question 171**

XYZCBAUVWFE \_\_\_?\_\_\_?

- A DR
- B RS
- C DS
- D MN

**Answer:** A

**Explanation:**

The given question consists of two series

Series 1

XYZ,UVW,RST

Series 2

CBA, FED,IHG

So

missing two letters are DR

**Question 172**

reoc, pgme, nikh, lkli \_\_\_?

- A acef
- B jmgk
- C efgh
- D wxyz

**Answer:** B

**Explanation:**

In the given series the first and the third letter of the series are moved two steps backward whereas the second and the fourth letter of the series are moved two steps forward

So the next term of the series is

$l-2, k+2, i-2, i+2$

$= jmgk$

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### Question 173

4, 196, 16, 169, ?, 144, 64

- A 21
- B 81
- C 36
- D 32

Answer: C

### Explanation:

In the given question there are two series

Series 1

$2^2, 4^2, 6^2, 8^2$

Series 2

$14^2, 13^2, 12^2$

So

? = 36

### Question 174

8, 15, 36, 99, 288, ?

- A 368
- B 676
- C 855
- D 908

Answer: C

### Explanation:

The Series follows the pattern

8

$8 + 7 \times 1 = 15$

$15 + 7 \times 3 = 36$

$36 + 7 \times 3 \times 3 = 99$

$99 + 7 \times 3 \times 3 \times 3 = 288$

$288 + 7 \times 3 \times 3 \times 3 \times 3 = 855$

### Instructions

For the following questions answer them individually

### Question 175

Find the wrong number in the series. 6, 9, 15, 22, 51, 99

- A 99



- B 51
- C 22
- D 15

**Answer:** C

**Explanation:**

$$9 - 6 = 3$$

$$15 - 9 = 6$$

$$22 - 15 = 7$$

$$51 - 22 = 29$$

$$99 - 51 = 48$$

So Ignoring the difference between the terms where one of the terms is 22 all other differences are multiple of 3

So 22 is the wrong term and the correct series would have been

$$9 - 6 = 3 \times 1$$

$$15 - 9 = 3 \times 2$$

$$27 - 15 = 3 \times 4$$

$$51 - 27 = 3 \times 8$$

$$99 - 51 = 3 \times 16$$

So 22 is the wrong term

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**Question 176**

In a row of girls, Kamla is 9th from the left and Veena is 16th from the right. If they interchange their positions, Kamla becomes 25th from the left. How many girls are there in the row?

- A 34
- B 36
- C 40
- D 41

**Answer:** C

**Explanation:**

Kamla is 9th from left and Veena is 16th from right.

When they interchange their position, Kamla becomes 25th from left

=> Now, Kamla is 25th from left and 16th from right

=> Total no. of girls in line =  $25 + 16 - 1 = 40$

**Question 177**

Ravi has spent a quarter ( $\frac{1}{4}$ ) of his life as a boy, one-fifth ( $\frac{1}{5}$ ) as a youth, one-third ( $\frac{1}{3}$ ) as man and thirteen (13) years in old age. What is his present age?

- A 70 years
- B 80 years

C 60 years

D 65 years

Answer: C

**Explanation:**

Let present age =  $x$  years

Life spent as a boy =  $\frac{x}{4}$  years

Similarly, life spent as youth =  $\frac{x}{5}$  years

According to ques,

$$\Rightarrow \frac{x}{4} + \frac{x}{5} + \frac{x}{3} + 13 = x$$

$$\Rightarrow \frac{15x+12x+20x}{60} + 13 = x$$

$$\Rightarrow \frac{47x+780}{60} = x$$

$$\Rightarrow 47x + 780 = 60x$$

$$\Rightarrow 60x - 47x = 780$$

$$\Rightarrow x = \frac{780}{13} = 60 \text{ years}$$

$\Rightarrow$  Ans - (C)

**Question 178**

Among her children, Ganga's favourites are Ram and Rekha. Rekha is the mother of Sharat, who is loved most by his uncle Mithun. The head of the family is Ram Lal, who is succeeded by his sons Gopal and Mohan. Gopal and Ganga have been married for 35 years and have 3 children. What is the relation between Mithun and Mohan?

A Uncle

B Son

C Brother

D No relation

Answer: D

## SSC CGL Free Online Coaching

**Question 179**

Out of 100 families in the neighbourhood, 50 have radios, 75 have TVs and 25 have VCRs. Only 10 families have all three and each VCR owner also has a TV. If some families have radio only, how many have only TV?

A 30

B 35

C 40

D 45

Answer: C

**Explanation:**

It is given that 25 families have VCRs and each VCR owner also has a TV

$\Rightarrow$  TV owners who do not have VCR =  $75 - 25 = 50$

Also, 10 families have all three items

=> No. of families having only TV =  $50 - 10 = 40$

**Question 180**

Suresh was born on 4th October 1999. Shashikanth was born 6 days before Suresh. The Independence Day of that year fell on Sunday. Which day was Shashikanth born?

- A Tuesday
- B Wednesday
- C Monday
- D Sunday

**Answer: B**

**Explanation:**

Suresh was born on 4 Oct 1999 and Shahshikanth was born 6 days before Suresh.

=> Shahshikanth was born on 29 Sep 1999

Now, 15 Aug 1999 was Sunday

Days from 15 Aug to 29 Sep 1999 = 45 days

=>  $45 \div 7 = 3$

=> Day on which Shashikanth was born = Sunday + 3 = Wednesday

**Question 181**

Five boys A, B, C, D, E are sitting in a park in a circle. A is facing South-West, D is facing South-East, B and E are right opposite A and D respectively and C is equidistant between D and B. Which direction is C facing?

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

**Answer: D**

**Explanation:**

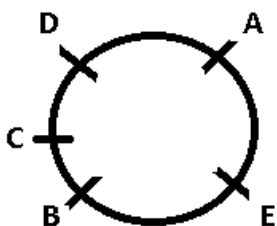
A is facing south west and D is facing south east. Since, B & E are opposite to A & D.

=> B is facing north-east and E is facing north-west.

Let all of them are facing the centre.

C is equidistant between D and B.

The above arrangement is :



Thus, C is facing east direction.

Ans - (D)

## SSC CHSL Previous Question papers (download pdf)

### Question 182

At what time are the hands of clocks together between 6 and 7?

- A  $32\frac{8}{11}$  minutes past 6
- B  $34\frac{8}{11}$  minutes past 6
- C  $30\frac{8}{11}$  minutes past 6
- D  $32\frac{5}{7}$  minutes past 6

Answer: A

#### Explanation:

The hand of the clock together means they have an angle of  $0^\circ$  between them.

$$\text{Angle between the hour and minute hand} = \left| \frac{11}{2} M - 30H \right|$$

Between 6 and 7, angle between both hands :

$$\Rightarrow \left| \frac{11}{2} M - 30 * 6 \right| = 0$$

$$\Rightarrow M = \frac{360}{11}$$

$$\Rightarrow M = 32\frac{8}{11}$$

$\therefore$  At  $32\frac{8}{11}$  minutes past 6, both the hands of the clock are together.

### Question 183

In a certain office,  $\frac{1}{3}$  of the workers are women,  $\frac{1}{2}$  of the women are married and  $\frac{1}{3}$  of the married women have children. If  $\frac{3}{4}$  of the men are married and  $\frac{2}{3}$  of the married men have children, then what part of workers are without children?

- A  $\frac{5}{18}$
- B  $\frac{4}{9}$
- C  $\frac{11}{18}$
- D  $\frac{17}{36}$

Answer: C

#### Explanation:

Let the total number of workers in the office be  $900x$

$$\Rightarrow \text{No. of women} = \frac{900x}{3} = 300x$$

$$\text{No. of married woman} = \frac{300x}{2} = 150x$$

$$\text{No. of married woman having children} = \frac{150x}{3} = 50x$$

$$\Rightarrow \text{No. of women NOT having children} = 300x - 50x = 250x$$

$$\text{No. of men} = 900x - 300x = 600x$$

$$\text{No. of married men} = \frac{3}{4} * 600x = 450x$$

$$\text{No. of married men having children} = \frac{2}{3} * 450x = 300x$$

$$\Rightarrow \text{No. of men NOT havin children} = 600x - 300x = 300x$$

Now, total no. of workers not having children =  $250x + 300x = 550x$

$$\therefore \text{Fraction of people without children} = \frac{550x}{900x} = \frac{11}{18}$$

**Question 184**

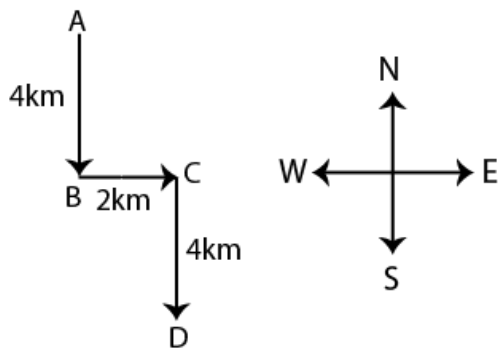
If a man on a moped starts from a point and rides 4 km South, then turns left and rides 2 km to turn again to the right to ride 4 km more, towards which direction is he moving?

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

**Answer:** D

**Explanation:**

The path of the man can be traced as follows:



thus, it can be clearly seen that he is heading south. Therefore the correct answer is option D.

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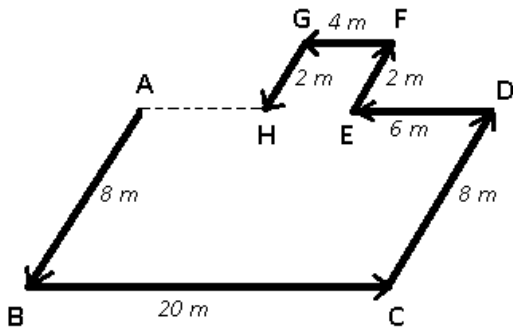
**Question 185**

Ganesh cycles towards South-West a distance of 8 m, then he moves towards East a distance of 20 m. From there he moves towards North-East a distance of 8 m, then he moves towards West a distance of 6 m. From there he moves towards North-East a distance of 2 m. Then he moves towards West a distance of 4 m and then towards SouthWest 2 m and stops at that point. How far is he from the starting point?

- A 12 m
- B 10 m
- C 8 m
- D 6 m

**Answer:** B

**Explanation:**



Let Ganesh started from point A and travelled south-west for 8 m, then he travelled for 20 m towards east, and again for 8 m towards north-east to reach point D. Then he turned left and travelled west for 6 m, again travelled north-east for 2 m and finally stopped at point H.

Thus,  $AH = 20 - (4 + 6) = 20 - 10 = 10$  m

=> Ans - (B)

**Question 186**

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

- A CONCERN
- B NATION
- C TRAIN
- D CENTRE

Answer: D

**Explanation:**

From the given alternative words, the only word which cannot be formed using the letters of the given word 'CONCENTRATION' is CENTRE as there is only single E in CONCENTRATION but 2Es in CENTRE. Hence the correct answer is option D.

**Question 187**

From the given alternative words, select the word which can be formed using the letters of the given word : 'DETERMINATION'

- A DECLARATION
- B NATIONAL
- C TERMINATED
- D DEVIATION

Answer: C

**Explanation:**

From the given alternative words, the only word which can be formed using the letters of the given word : 'DETERMINATION' is TERMINATED. Hence the correct answer is option C.

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**Question 188**

If in a certain code HYDROGEN is written as JCZYSSD, then how can ANTIMONY be written in that code?

- A CPVKOQPA

- B CRZQWABO
- C ERXMQSRC
- D GTZOSUTE

**Answer: B**

**Explanation:**

If in a certain code HYDROGEN is written as JCJZYSSD, then the pattern that can be identified is: H is replaced by J which has one letter in between, Y is replaced by C which have 3 letters in between, D by J which have 5 letters in between and so on does the odd number series continues. Similarly, ANTIMONY can be replaced by CRZQWABO. Hence the correct answer is option B.

**Question 189**

If DELHI is coded as 73541 and CALCUTTA as 82589662, then how can CALICUT be coded?

- A 5279431
- B 5978013
- C 8251896
- D 8543691

**Answer: C**

**Explanation:**

The code for each letter is given :

- C -> 8
- A -> 2
- L -> 5
- I -> 1
- C -> 8
- U -> 9
- T -> 6

Thus, CALICUT : **8251896**

=> Ans - (C)

**Question 190**

Two statements are given followed by four inferences. Select the alternative which is most appropriate.

**Statements:** India is becoming industrialised. Pollution is a problem associated with industrialisation

- Inferences:**
- I. All industrial centres are polluted.
  - II. India is polluted.
  - III. Polluted nations are industrialised.
  - IV. India may become polluted.

- A All are appropriate
- B None is appropriate
- C Only IV is appropriate
- D Only II is appropriate

**Answer: C**

**Explanation:**

The statement indicates that India is becoming industrialised, which is one of the causes of pollution.

Now, it does not mean that India is polluted or all the polluted nations are industrialised.

But, India may become polluted is the most appropriate inference.

Thus, only IV is appropriate.

=> Ans - (C)

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### Instructions

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

#### Question 191

2	7	9
7	3	4
9	8	?
126	168	216

- A 8
- B 3
- C 6
- D 36

Answer: C

#### Explanation:

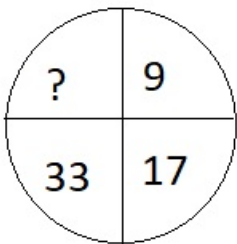
Let the number in the first row be 'a', in the second row be 'b', in the third row be 'c' and in the fourth row be 'd'.

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

=> Missing number =  $9 * 4 * c = 216$

=>  $c = 216 / 36 = 6$

#### Question 192



- A 60
- B 68
- C 55
- D 65

Answer: D

#### Explanation:

The pattern followed above is :

$$9 + 8 * 1 = 17$$

$$17 + 8 * 2 = 33$$



$$33 + 8 \times 4 = 65$$

=> Ans - (D)

### Instructions

For the following questions answer them individually

### Question 193

If "-" stands for '+', '+' stands for 'x', '÷' for '-' and 'x' for '+', which one of the following equations is correct?

A  $30 - 6 + 5 \times 4 \div 2 = 27$

B  $30 + 6 - 5 \div 4 \times 2 = 30$

C  $30 \times 6 \div 5 - 4 + 2 = 32$

D  $30 \div 6 \times 5 + 4 - 2 = 40$

Answer: A

### Explanation:

If "-" stands for '+', '+' stands for 'x', '÷' for '-' and 'x' for '+' then solving options we get:

$30 - 6 + 5 \times 4 \div 2 = 27 = 30 \div 6 \times 5 + 4 - 2 = 27$ . hence the correct answer is option A.

## SSC CGL Free Mock Test

### Question 194

Some equations have been solved on the basis of a certain system. Find the correct answer for the unsolved equation on that basis. If  $9 * 7 = 32$ ,  $13 * 7 = 120$ ,  $17 * 9 = 208$ , then  $19 * 11 = ?$

A 150

B 180

C 210

D 240

Answer: D

### Explanation:

The pattern followed above is :  $a * b = (a + b)(a - b)$

$$\Rightarrow 19 * 11 = (19 + 11)(19 - 11)$$

$$= 8 * 30 = 240$$

### Question 195

Forecast the Growth Rate for the year 1995 from the following data:

Years	1990	1991	1992	1993	1994	1995
Growth Rate	3.5	3.7	4.1	4.9	6.5	?

A 7.8

B 8.6

C 9.7

D 9.9

Answer: C

**Explanation:**

The pattern followed above is :

$$3.5 + 0.2^1 = 3.7$$

$$3.7 + 0.2^2 = 4.1$$

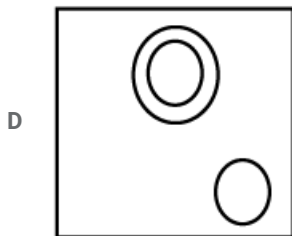
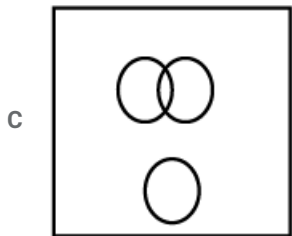
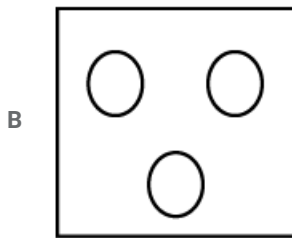
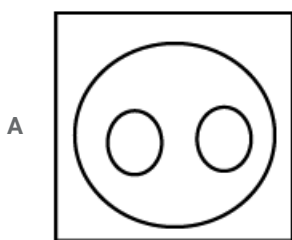
$$4.1 + 0.2^3 = 4.9$$

$$4.9 + 0.2^4 = 6.5$$

$$\Rightarrow \text{Growth rate in year 1995} = 6.5 + 0.2^5 = 9.7$$

**Question 196**

Which of the following diagrams represents the relationship among Sun, Moon and Star?

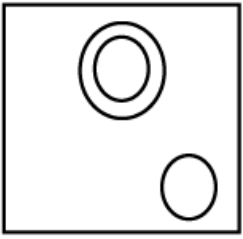


Answer: D

**Explanation:**

Sun is a star, while moon is a planet.

$\Rightarrow$  The above relationship is depicted by :

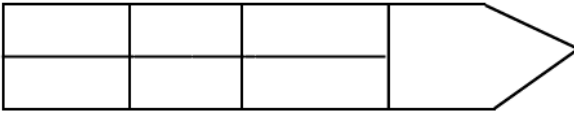


Ans - (D)

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Question 197

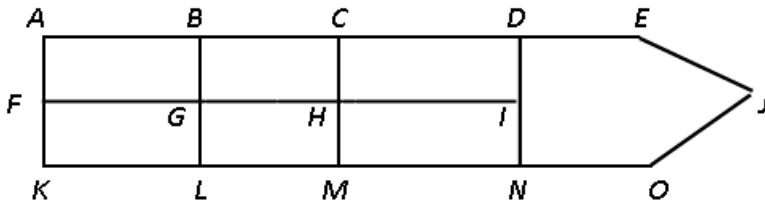
How many rectangles are there in the given diagram?



- A 4
- B 7
- C 9
- D 18

Answer: D

Explanation:



Smaller rectangles = (ABGF), (BCHG), (CDIH), (FGKL), (GHLM), (HIMN)

Rectangles formed by 2 rectangle = (ACHF), (BDIG), (FHMK), (GINL), (ABLK), (BCML), (CDNM)

Rectangles formed by 3 rectangle = (ADIF), (FINK)

Rectangles formed by 4 rectangle = (ACMK), (BDNL)

Rectangles formed by 6 rectangles = (ADNK)

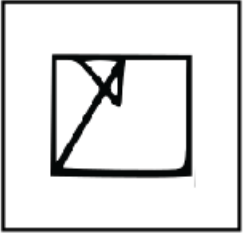
Thus, total rectangles = 18

=> Ans - (D)

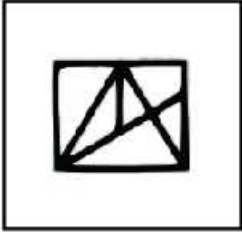
**Instructions**

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

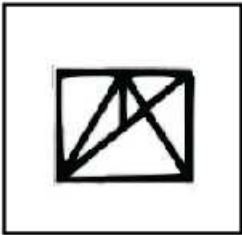
Question 198



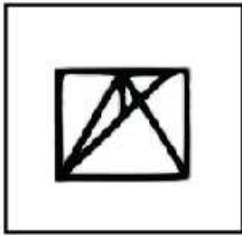
A



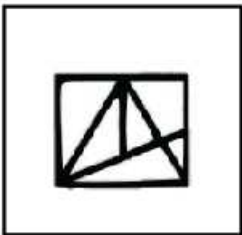
B



C



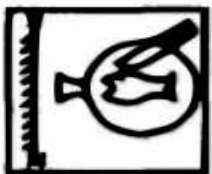
D

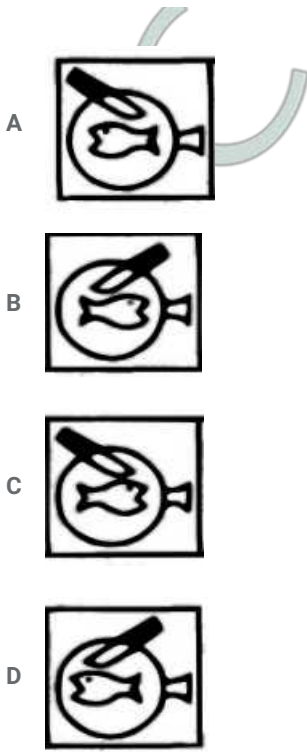


Answer: C

Question 199

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





Answer: C

**Explanation:**

In the above figure, fish is facing west, => in the mirror it will face east.

=> (A) & (D) are eliminated.

Also, knife is facing south-west, thus in the mirror it will face south-east

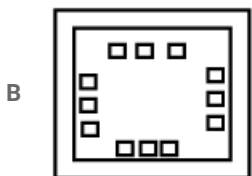
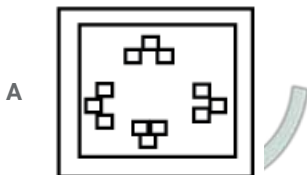
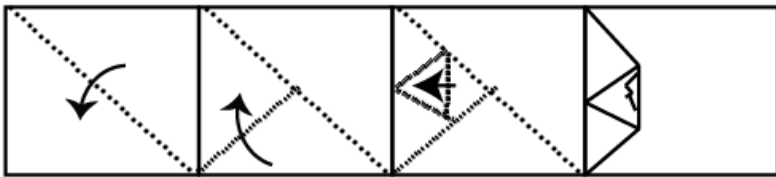
=> (B) is also eliminated.

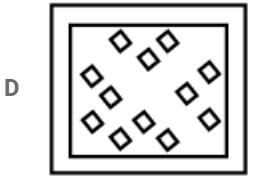
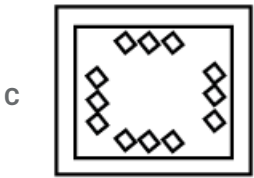
Ans - (C)

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**Question 200**

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. Questions Figure :





Answer: C

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