



SSC CGL Tier 1 9 August 2015 Shift 1

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General Awareness

Instructions

For the following questions answer them individually

Question 1

Peroxyacetyl nitrate is a

- A Acidic dye
- B Plant hormone
- C Vitamin
- D Secondary pollutant

Answer: D

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Question 2

Which of the following river does not originate in Indian territory ?

- A Ganga
- B Mahanadi
- C Brahmaputra
- D Satluj

Answer: C

Question 3

To whom the line "A thing of beauty is a joy for ever" is attributed ?

- A William Wordsworth
- B John Keats
- C Dr. Charles Dickens
- D Dr. Jonathan Swift

Answer: B

Question 4

The birthday of which of the following leaders is celebrated as 'Teachers' Day' in India ?

- A Lala Lajpat Rai
- B Dr. Rajendra Prasad
- C S. Radhakrishnan
- D C. Rajagopalachari

Answer: C

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Question 5

The award given for outstanding performance in sports is

- A Dronacharya Award
- B Bharat Ratna
- C Padma Shri Award
- D Arjuna Award

Answer: D

Question 6

Which hill station's name means 'place of the thunderbolt' ?

- A Gangtok
- B Shillong
- C Ootacamand
- D Darjeeling

Answer: D

Question 7

The maximum fixation of solar energy is done by

- A Protozoa
- B Bacteria
- C Fungi
- D Green plants

Answer: D

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Question 8

The term 'brown air' is used for

- A Acid fumes
- B Photochemical smog
- C Sulphurous smog
- D Industrial smog

Answer: B

Question 9

Which of the following is FALSE with respect to rain water harvesting ?

- A It is a device of water conservation.
- B It helps raising water table.
- C It helps meet rising water demand.
- D It increases run-off losses.

Answer: D

Question 10

Where was the first conference of SAARC (South Asian Association for Regional Cooperation) held ?

- A Kathmandu
- B Dhaka
- C New Delhi
- D Colombo

Answer: B

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Question 11

Which among the following is not a Bretton Woods Institution ?

- A None of these
- B International Monetary Fund (IMF)
- C World Bank
- D Organisation of Economic Cooperation and Development (OECD)

Answer: D

Question 12

Equilibrium price in the market is determined by the

- A equality between marginal cost and average cost.
- B equality between total cost and total revenue.
- C equality between average cost and average revenue.
- D equality between marginal cost and marginal revenue.

Answer: D

Question 13

In the national context which of the following indicates Macro Approach ?

- A Inflation in India.
- B Sales of Bata Shoe Company
- C Exports of Mangoes to UK
- D Income from Railways.

Answer: C

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Question 14

Internal economies arise in which condition?

- A arise when there is expansion in an industry.
- B arise in an economy as it makes progress.
- C accrue to a firm when it expands its output.
- D arise when there is expansion in internal trade.

Answer: A

Question 15

The ship building yard-Mazagon Dock is located at

- A Vishakhapatnam
- B Kochi
- C Kolkata
- D Mumbai

Answer: D

Question 16

Electric current is measured using which instrument ?

- A Ammeter
- B Voltmeter
- C Anemometer
- D Wattmeter

Answer: A

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Question 17

'Agha Khan Cup' is related with which sport event ?

- A Football
- B Cricket
- C Hockey
- D Table Tennis

Answer: C

Question 18

The legislature gains a priority over the executive in which government?

- A A Presidential Government
- B A Federal Government
- C An Authoritarian Government
- D A Parliamentary Government

Answer: D

Question 19

The legislature in a democratic country can influence public opinion by

- A Focusing attention on public issues
- B Granting rights
- C Enacting non-controversial laws
- D Defining the duties of the citizens

Answer: A

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Question 20

If the President wants to resign from his office, he may do so by writing to the

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

Answer: B

Question 21

Which of the following is not a Union Territory ?

- A Dadra and Nagar Haveli
- B Lakshadweep

C Puducherry

D Nagaland

Answer: D

Question 22

The greatest king of the Pratihara dynasty was

A Vatsaraj

B Bhoj (Mihir-Bhoj)

C Dantidurga

D Nagabhata II

Answer: B

General Science Notes for SSC CGL

Question 23

What is the one of the main features of a free market economy?

A active state intervention

B public ownership of factors of production

C rationing and price control

D consumer's sovereignty

Answer: D

Question 24

Gross National Product - Depreciation Allowance = ?

A Per Capita Income

B Gross Domestic Product

C Personal Income

D Net National Product

Answer: D

Question 25

The Panchayat Samiti remains accountable for its functions to

A Janpad Panchayats

B The Gram Panchayats and Gram Sabhas

C Zilla Parishads

D Anchal Panchayats

Answer: C

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Question 26

Which one of the following pair is not correctly matched ?

- A Harshvardhan - Hiuen Tsang
- B Akbar - Todarmal
- C Chanakya - Chandragupta
- D Vikramaditya - Chaitanya

Answer: D

Question 27

The Southeast trade winds are attracted towards the Indian subcontinent in the rainy season due to

- A the development of cyclone over the equator
- B the effect of easterlies
- C the effect of Northern-East trade winds
- D the presence of low atmospheric pressure over North-West India

Answer: D

Question 28

The 'graded profile' of a river course is a

- A smooth curve from source to mouth.
- B smooth curve in the upper course.
- C smooth curve in the middle course.
- D smooth curve in the lower course.

Answer: A

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Question 29

Sinkhole is a phenomenon oftopography.

- A Plain
- B Desert
- C Tundra
- D Karst

Answer: D

Question 30

Kerala is famous for the cultivation of

- 1: Coconut**
- 2: Black-pepper**
- 3: Rubber**
- 4: Rice**

- A 1, 2 and 3**
- B 1, 2 and 4**
- C 2, 3 and 4**
- D 1 and 4**

Answer: A

Question 31

In 1939 Subhash Chandra Bose was elected as President of the Congress Party defeating

- A Pattabhi Sitaramayya**
- B Jawaharlal Nehru**
- C Maulana Abul .Kalam Azad**
- D VB Patel**

Answer: A

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Question 32

Jallianwala incident took place at

- A Allahabad**
- B Lucknow**
- C Surat**
- D Amritsar**

Answer: D

Question 33

Who was the founder of Lodhi dynasty ?

- A Daulat Khan Lodhi**
- B Sikandar Lodhi**
- C Bahlol Lodhi**
- D Ibrahim Lodhi**

Answer: C

Question 34

Allantois of Embryo helps in

- A digestion
- B respiration
- C excretion
- D protection

Answer: C

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Question 35

Example of an animal belongs to mollusca is ?

- A Haliotis
- B Hare
- C Hydra
- D Hyla

Answer: B

Question 36

Outside the nucleus DNA is found in

- A Golgi bodies
- B Mitochondria
- C Ribosome
- D Endoplasmic reticulum

Answer: B

Question 37

Animal protein is called first class protein because it is

- A easily digestible
- B delicious in taste
- C cheaper in the market
- D rich in essential amino acids

Answer: D

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Question 38

It is easy to burst a gas-filled balloon with a needle than with a nail. It is because

- A nail is more longer than needle.
- B nail exerts more pressure than needle on the balloon.
- C needle exerts more pressure than nail on the balloon.
- D gas is reactive with the needle.

Answer: C

Question 39

The longest continental Railway in the world is

- A Trans Atlantic Railway
- B Trans Siberian Railway
- C Canadian Pacific Railway
- D Canadian National Railway

Answer: B

Question 40

Photoperiodism affects

- A All of these
- B Flowering
- C Vegetative growth
- D Fruiting

Answer: A

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Question 41

Match the following :

I	II
A. Ascorbic Acid	1. Photosynthetic Pigment
B. Chlorophyll	2. Quencher
C. Carotenoid	3. Enzyme
D. Superoxide dismutase	4. Vitamin-C

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

Answer: A

Question 42

What is used to identify whether a data word has an odd or even number of 1's ?

- A Carry bit
- B Sign bit
- C Zero bit
- D Parity bit

Answer: D

Question 43

Rearranging and allocating space in memory to provide for multiple computing tasks is called

- A Networking
- B Multiprogramming
- C Multitasking
- D Memory Management

Answer: D

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Question 44

What happens when a drop of glycerol is added to crushed KMnO_4 spread on a paper ?

- A There is a crackling sound.
- B There is a violent explosion.
- C There is no reaction.
- D The paper ignites.

Answer: B

Question 45

Most commonly used bleaching agent is

- A Sodium chloride
- B Alcohol
- C Carbon dioxide
- D Chlorine

Answer: D

Question 46

The least penetrating power ray is

- A X-Ray
- B α -Ray
- C β -Ray
- D γ -Ray

Answer: B

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Question 47

Hydrogen peroxide is an effective sterilizing agent. Which one of the following product results when it readily loses active oxygen?

- A Nascent Hydrogen
- B Water
- C Hydrogen
- D Ozone

Answer: B

Question 48

The velocity of sound in moist air is more than in dry air because the moist air has

- A less density than dry air.
- B less pressure than dry air.
- C more pressure than the air.
- D more density than dry air.

Answer: A

Question 49

What is the use of X-rays?

- A for cutting and welding of metals.
- B to detect heart diseases.
- C to detect defects in precious stones and diamonds.
- D to detect gold under the earth.

Answer: C

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Question 50

Ice is packed in sawdust because

- A saw dust will not get melted easily.
- B saw dust is poor conductor of heat.
- C saw dust is a good conductor of heat.
- D saw dust does not stick to the ice.

Answer: B

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Quant

Instructions

For the following questions answer them individually

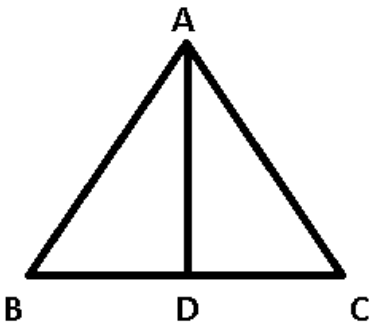
Question 51

In $\triangle ABC$, a line through A cuts the side BC at D such that $BD : DC = 4 : 5$. If the area of $\triangle ABD = 60 \text{ cm}^2$, then the area of $\triangle ADC$ is

- A 90 cm^2
- B 50 cm^2
- C 60 cm^2
- D 75 cm^2

Answer: D

Explanation:



Let $BD = 4x$ and $DC = 5x$

Let height of the triangle be h which will be same for both triangles ABD and ADC.

Now, area of $\triangle ABD = \frac{1}{2} * BD * h = 60$

$$\Rightarrow \frac{1}{2} * 4x * h = 60$$

$$\Rightarrow xh = 30$$

Now, area of $\triangle ADC = \frac{1}{2} * DC * h$

$$= \frac{1}{2} * 5x * h = \frac{1}{2} * 5 * 30$$

$$= 75 \text{ cm}^2$$

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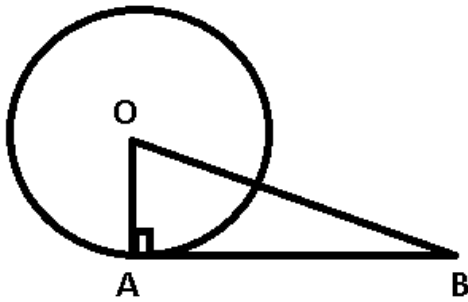
Question 52

A tangent is drawn to a circle of radius 6 cm from a point situated at a distance of 10 cm from the centre of the circle. The length of the tangent will be

- A 7 cm
- B 4 cm
- C 5 cm
- D 8 cm

Answer: D

Explanation:



radius $OA = 6$ and $OB = 10$

Now, in $\triangle OAB$ right angle at A

$$\begin{aligned} AB &= \sqrt{(OB)^2 - (OA)^2} \\ &= \sqrt{100 - 36} = \sqrt{64} \\ &= 8 \text{ cm} \end{aligned}$$

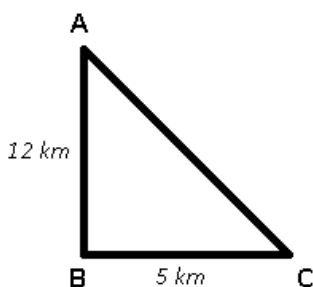
Question 53

A ship after sailing 12 km towards south from a particular place covered 5 km more towards east. Then the straightway distance of the ship from that place is

- A 11 km
- B 18 km
- C 15 km
- D 13 km

Answer: D

Explanation:



Let the ship started from point A and sailed 12 km south to reach B, and then turned east and finally reached C after travelling 5 km.

$$\text{Thus, } (AC)^2 = (AB)^2 + (BC)^2$$

$$\Rightarrow (AC)^2 = (12)^2 + (5)^2$$

$$\Rightarrow (AC)^2 = 144 + 25 = 169$$

$$\Rightarrow AC = \sqrt{169} = 13 \text{ km}$$

\Rightarrow Ans - (D)

Question 54

The sides of a triangle having area 7776 sq. cm are in the ratio 3 : 4 : 5. The perimeter of the triangle is

A 432 cm

B 400 cm

C 412 cm

D 424 cm

Answer: A

Explanation:

Let the sides of the triangle be $3x$, $4x$ and $5x$

$$\therefore (3x)^2 + (4x)^2 = 25x^2 = (5x)^2$$

\Rightarrow These are the sides of a right angled triangle and since $5x$ is the longest side, it will be hypotenuse

$$\text{Area of triangle} = \frac{1}{2} * 3x * 4x = 7776$$

$$\Rightarrow x^2 = 1296$$

$$\Rightarrow x = \sqrt{1296} = 36$$

$$\Rightarrow \text{Perimeter of triangle} = 3x + 4x + 5x = 12x$$

$$= 12 * 36 = 432 \text{ cm}$$

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Question 55

Two chords of length a unit and b unit of a circle make angles 60° and 90° at the centre of a circle respectively, then the correct relation is

A $b = 3/2a$

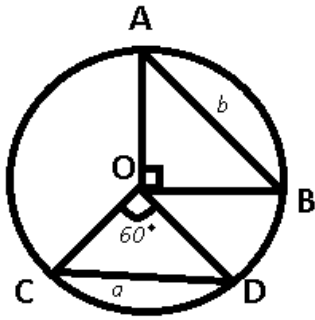
B $b = \sqrt{2}a$

C $b = 2a$

D $b = \sqrt{3}a$

Answer: B

Explanation:



Length of chord $CD = a$ and $AB = b$

Let radius of the circle be r

In $\triangle OAB$, by using Pythagoras theorem

$$\Rightarrow r^2 + r^2 = b^2$$

$$\Rightarrow 2r^2 = b^2$$

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

Now, in $\triangle COD$, $OC = OD = \text{radii}$

$$\Rightarrow \angle OCD = \angle ODC = \angle COD = 60^\circ$$

\Rightarrow $\triangle OCD$ is equilateral triangle

$$\Rightarrow a = r \text{-----Eqn(2)}$$

From eqns(1) & (2), we get :

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

$$\Rightarrow b = \sqrt{2}a$$

Question 56

In a parallelogram PQRS, angle P is four times of angle Q, then the measure of angle R is

- A 144°
- B 36°
- C 72°
- D 130°

Answer: A

Explanation:

Sum of adjacent angles of a parallelogram = 180°

Let angle Q be x .

$$x + 4x = 180^\circ$$

$$5x = 180^\circ$$

$$x = 36^\circ$$

Angle Q + Angle R = 180° (Adjacent angles)

$$\Rightarrow \text{Angle R} = 180^\circ - 36^\circ$$

Angle R = 144° .

Option A is the right answer.

Question 57

The sum of four numbers is 48. When 5 and 1 are added to the first two; and 3 and 7 are subtracted from the 3rd and 4th, all the four numbers will be equal. The numbers are

- A 9, 7, 15, 17
- B 4, 12, 12, 20
- C 5, 11, 13, 19
- D 6, 10, 14, 18

Answer: D

Explanation:

Let the numbers be a, b, c, d

$$\Rightarrow a + b + c + d = 48 \text{ -----Eqn(1)}$$

When 5 & 1 are added to first two, $\Rightarrow (a + 5) \text{ and } (b + 1)$

and when 3 & 7 are subtracted from last two, $\Rightarrow (c - 3) \text{ and } (d - 7)$

According to question :

$$\Rightarrow a + 5 = b + 1 = c - 3 = d - 7 = k \text{ (let)}$$

Now, in eqn(1)

$$(a + 5) + (b + 1) + (c - 3) + (d - 7) = 48 + (5+1-3-7)$$

$$\Rightarrow k + k + k + k = 48 - 4$$

$$\Rightarrow k = 11$$

$$\Rightarrow \text{Numbers are : } a = k - 5 = 11 - 5 = 6$$

Similarly, $b = 10$

$$c = 14$$

$$d = 18$$

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Question 58

The least number that should be added to 2055, so that the sum is exactly divisible by 27 is

- A 28
- B 24
- C 27
- D 31

Answer: B

Explanation:

The remainder obtained by dividing 2055 by 27 = 3

So, the least number that should be 'subtracted' from 2055 to make it perfectly divisible by 27 = 3

and the least number that should be added = 27 - 3 = 24

Question 59

A and B together can do a piece of work in 6 days. If A can alone do the work in 18 days, then the number of days required for B to finish the work is

- A 10

- B 12
- C 9
- D 15

Answer: C

Explanation:

Let total work to be done = 18 units

Rate at which A & B finish the work = $\frac{18}{6} = 3$ units/day

Now, A alone finish work in 18 days

=> Rate at which A alone finish work = $\frac{18}{18} = 1$ unit/day

Now, rate at which B alone finishes = $3 - 1 = 2$ units/day

=> Number of days required by B to finish the work = $\frac{18}{2} = 9$ days

Question 60

A pipe can fill a tank in x hours and another can empty it in y hours. They can together fill it in $(y > x)$

- A $\frac{xy}{y-x}$ hours
- B $x - y$ hours
- C $y - x$ hours
- D $\frac{xy}{x-y}$ hours

Answer: A

Explanation:

Let the capacity of the tank be xy litres.

Let 1st pipe fills it in x hrs and 2nd pipe empties it in y hrs

Rate at which 1st pipe fills it = $\frac{xy}{x} = y$ l/hr

and rate at which 2nd pipe empties it = $\frac{xy}{y} = -x$ l/hr ['-' denotes emptying the tank]

=> Rate at which both pipes fill the tank = $y + (-x) = (y - x)$ l/hr

=> Time required to fill it together = $\frac{xy}{y-x}$ hours

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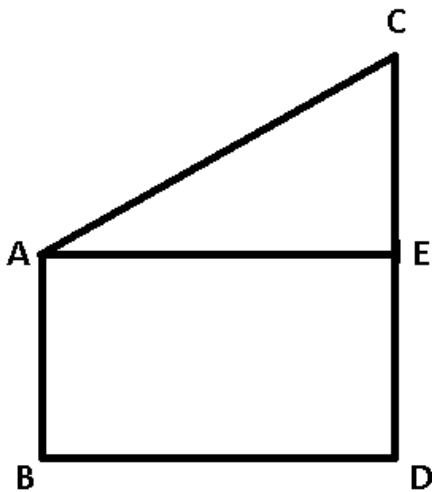
Question 61

Two poles of height 7 metre and 12 metre stand on a plane ground. If the distance between their feet is 12 metre, the distance between their top will be

- A 15 metre
- B 13 metre
- C 19 metre
- D 17 metre

Answer: B

Explanation:



Height of pole $AB = 7$ metre $= DE$ and $CD = 12$ metre

$BD = 12$ metre $= AE$

Now, $CE = CD - DE = 12 - 7 = 5$ metre

In $\triangle ACE$

$$\begin{aligned} AC &= \sqrt{(AE)^2 + (CE)^2} \\ &= \sqrt{12^2 + 5^2} = \sqrt{169} \\ &= 13 \text{ metre} \end{aligned}$$

Question 62

The maximum value of $\sin \theta + \cos \theta$ is

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

Answer: B

Explanation:

for $a \sin \theta + b \cos \theta + c$,

$$\text{maximum value} = c + \sqrt{a^2 + b^2}$$

$$\text{minimum value} = c - \sqrt{a^2 + b^2}$$

for $\sin \theta + \cos \theta$, $a = 1$, $b = 1$, $c = 0$

$$\text{maximum value} = c + \sqrt{a^2 + b^2} = 0 + \sqrt{1^2 + 1^2} = \sqrt{2}$$

so the answer is option B.

Question 63

Find the value of $\tan 4^\circ \tan 43^\circ \tan 47^\circ \tan 86^\circ$

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

C $\frac{1}{2}$

D 2

Answer: B

Explanation:

Expression : $\tan 4^\circ \tan 43^\circ \tan 47^\circ \tan 86^\circ$

$$\because \tan(90 - \theta) = \cot\theta$$

$$\Rightarrow \tan 4^\circ = \tan(90^\circ - 86^\circ) = \cot 86^\circ$$

$$\text{Similarly, } \tan 43^\circ = \cot 47^\circ$$

$$\Rightarrow (\cot 86^\circ \times \tan 86^\circ) * (\tan 47^\circ \times \cot 47^\circ)$$

$$\text{Using, } \tan\theta\cot\theta = 1$$

$$\Rightarrow 1*1 = 1$$

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Question 64

A square is inscribed in a quarter-circle in such a manner that two of its adjacent vertices lie on the two radii at an equal distance from the centre, while the other two vertices lie on the circular arc. If the square has sides of length x , then the radius of the circle is

A $\sqrt{2x}$

B $\frac{16x}{n+4}$

C $\frac{2x}{\sqrt{\pi}}$

D $\frac{\sqrt{5}x}{\sqrt{2}}$

Answer: D

Explanation:

Let, the distance between the centre and the vertices on the radii be 'a'.

$$\text{So, } x^2 = a^2 + a^2$$

$$a = \frac{x}{\sqrt{2}}$$

Now, the diagonal of the square, radius of the circle and the distance 'a' forms a right angle triangle with radius as hypotenuse.

$$\text{so, radius} = \sqrt{a^2 + x^2} = \sqrt{\left(\frac{x}{\sqrt{2}}\right)^2 + x^2}$$

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

Question 65

10% discount and then 20% discount in succession is equivalent to total discount of

A 28%

B 15%

C 30%

D 24%

Answer: A

Explanation:

Let original price = $100x$

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

Price = $100x - 10x = 90x$

After 2nd discount of 20% $\Rightarrow \frac{20}{100} * 90x = 18x$

Price will become = $90x - 18x = 72x$

\Rightarrow Equivalent Discount % = $\frac{100x-72x}{100x} * 100 = 28\%$

Question 66

The marked price of a watch was Rs.720. A man bought the same for Rs. 550.80 after getting two successive discounts, the first being 10%. The second discount rate is

- A 18%
- B 12%
- C 14%
- D 15%

Answer: D

Explanation:

Marked price = 720

After 1st discount of 10% $\Rightarrow 10\%$ of 720 = $\frac{10}{100} * 720 = 72$

Amount payable = $720 - 72 = 648$

Let 2nd discount = $x\%$

After 2nd discount of $x\%$

$\Rightarrow x\%$ of 648 = $\frac{x}{100} * 648 = 6.48x$

\Rightarrow Customer will pay = $648 - 6.48x = 550.80$

$\Rightarrow 6.48x = 97.2$

$\Rightarrow x = 15\%$

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Question 67

A tap can empty a tank in 30 minutes. A second tap can empty it in 45 minutes. If both the taps operate simultaneously, how much time is needed to empty the tank ?

- A 30 minutes
- B 18 minutes
- C 14 minutes
- D 15 minutes

Answer: B

Explanation:

Let the volume of tank be 90 litres.

1st tap empty it in 30 min

$$\Rightarrow \text{Rate of 1st tap} = \frac{90}{30} = 3 \text{ l/min}$$

2nd tap can empty it in 45 minutes.

$$\Rightarrow \text{Rate of 2nd tap} = \frac{90}{45} = 2 \text{ l/min}$$

Rate at which both taps empty it = $3+2 = 5 \text{ l/min}$

$$\Rightarrow \text{Time needed to empty tank} = \frac{90}{5} = 18 \text{ min}$$

Question 68

The perimeter of one face of a cube is 20 cm. Its volume will be

- A 625 cm
- B 100 cm
- C 125 cm
- D 400 cm

Answer: C

Explanation:

Let each side of the cube be a

One face of a cube is a square with perimeter 20 cm

$$\Rightarrow 4 * a = 20$$

$$\Rightarrow a = 5$$

$$\begin{aligned} \text{Volume of cube} &= a^3 \\ &= 5^3 = 125 \text{ cm}^3 \end{aligned}$$

Question 69

If the area of a circle is A , radius of the circle is r and circumference of it is C , then

- A $\frac{A}{r}$
- B $rA = 2C$
- C $\frac{A}{C} = \frac{r}{2}$
- D $AC = \frac{r^2}{4}$

Answer: B

Explanation:

Radius of circle is given r

$$\text{Area of circle} = A = \pi * r^2$$

$$\Rightarrow \pi r = \frac{A}{r}$$

$$\text{Circumference of circle} = C = 2 * \pi * r$$

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

Comparing both equations, we get :

$$\Rightarrow \frac{A}{r} = \frac{C}{2}$$

$$\Rightarrow rC = 2A$$

General Science Notes for SSC CGL

Question 70

The average weight of 15 oarsmen in a boat is increased by 1.6 kg when one of the crew, who weighs 42 kg is replaced by a new man. Find the weight of the new man (in kg).

- A 67
- B 65
- C 66
- D 43

Answer: C

Explanation:

Let the average weight of the original 15 oarsmen = A

$$\Rightarrow \text{Total weight of 15 oarsmen} = 15A$$

Let the weight of new man be x

After he replaces the man with weight 42 kg, the average weight increases by 1.6 kg

$$\Rightarrow \frac{15A + x - 42}{15} = A + 1.6$$

$$\Rightarrow 15A + x - 42 = 15A + 24$$

$$\Rightarrow x = 24 + 42 = 66$$

Question 71

What is the Arithmetic mean of the first 'n' natural numbers ?

- A $\frac{n+1}{3}$
- B $\frac{n+1}{2}$
- C $\frac{n+1}{4}$
- D $2(n+1)$

Answer: B

Explanation:

$$\text{Arithmetic Mean} = \frac{\text{Sum of Elements}}{\text{Number of Elements}}$$

$$\text{Sum of first } n \text{ natural numbers} = \frac{n(n+1)}{2}$$

$$\text{Arithmetic Mean of first } n \text{ natural numbers} = \frac{\frac{n(n+1)}{2}}{n} = \frac{n+1}{2}$$

Question 72

A shopkeeper bought 30 kg of rice at the rate of Rs. 70 per kg and 20 kg of rice at the rate of Rs. 70.75 per kg. If he mixed the two brands of rice and sold the mixture at Rs. 80.50 per kg, his gain is

- A Rs. 450
- B Rs. 510
- C Rs. 525

D Rs. 485

Answer: B

Explanation:

The shopkeeper bought 30 kg rice at Rs. 70/kg

$$\text{C.P.} = 70 \times 30 = \text{Rs. } 2100$$

Similarly, C.P. for second type of rice = $70.75 \times 20 = \text{Rs. } 1415$

$$\Rightarrow \text{Total C.P.} = 2100 + 1415 = \text{Rs. } 3515$$

He sold these two brands at Rs. 80.50/kg

$$\Rightarrow \text{Total S.P.} = 80.50 \times 50 = \text{Rs. } 4025$$

$$\text{Profit} = 4025 - 3515 = \text{Rs. } 510$$

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Question 73

Allowing 20% and 15% successive discounts, the selling price of an article becomes Rs. 3,060; then the marked price will be

A Rs. 4,000

B Rs. 4,400

C Rs. 5,000

D Rs. 4,500

Answer: D

Explanation:

Let M.P. = $100x$

$$\text{After allowing 20\% discount} \Rightarrow \frac{20}{100} * 100x = 20x$$

$$\Rightarrow \text{Amount after first discount} = 100x - 20x = 80x$$

$$\text{After allowing 15\% discount} \Rightarrow \frac{15}{100} * 80x = 12x$$

$$\Rightarrow \text{Amount after second discount} = 80x - 12x = 68x$$

$$\text{Now, } 68x = 3060$$

$$\Rightarrow x = 45$$

$$\Rightarrow \text{M.P.} = 4500$$

Question 74

Eighteen years ago, the ratio of A's age to B's age was 8:13 Their present ratios are 5 :7 What is the present age of A ?

A 60 years

B 70 years

C 50 years

D 40 years

Answer: C

Explanation:

let the ages of A and B 18 years ago be $8x$ and $13x$

So there present ages will be

$$A = 8x + 18$$

$$B = 13x + 18$$

It is given that ,

$$\frac{8x+18}{13x+18} = \frac{5}{7}$$

$$x = 4$$

So present age of A = $8x + 18 = 32 + 18 = 50$ years

Question 75

729 ml of a mixture contains milk and water in the ratio 7 : 2. How much more water is to be added to get a new mixture containing milk and water in the ratio 7:3 ?

A 81 ml

B 60 ml

C 71 ml

D 52 ml

Answer: A

Explanation:

As it is mentioned that in a 729 ml mixture of milk and water ,the ratio of Milk : water = 7:2

$$\text{So amount of milk} = \frac{7}{9} \times 729 \text{ ml} = 567 \text{ ml}$$

$$\text{amount of water} = \frac{2}{9} \times 729 \text{ ml} = 162 \text{ ml}$$

Let the amount of water added be y ml

So it is given that :

$$\Rightarrow \frac{567}{162+y} = \frac{7}{3}$$

$$\Rightarrow 162 + y = 243$$

$$\Rightarrow y = 243 - 162 = 81 \text{ ml}$$

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Question 76

In certain years a sum of money is doubled to itself at $6 \frac{1}{4}$ % simple interest per annum, then the required time will be

A 16 Years

B $12 \frac{1}{2}$ years

C 8 years

D $10 \frac{2}{3}$ years

Answer: A

Explanation:

let the principal amount be Rs P and rate if interest be R% per annum

It is given that $R = \frac{25}{4}$ % when interest is Simple Interest

Let T be time to double up the principal amount with the given rate of interest

$$SI = \frac{P \times R \times T}{100}$$

If the amount is doubled then simple interest accumulated is Rs P

$$\Rightarrow P = \frac{P \times 25 \times T}{4 \times 100}$$

$$\Rightarrow T = \frac{100 \times 4}{25}$$

$$\Rightarrow T = 4 \times 4 = 16 \text{ years}$$

Question 77

The length of the portion of the straight line $3x + 4y = 12$ intercepted between the axes is

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

Answer: A

Explanation:

$$\text{Equation : } 3x + 4y = 12$$

To find x -intercept, put $y=0$

$$\Rightarrow 3x + 0 = 12$$

$$\Rightarrow x = 4$$

Similarly to find y -intercept, we need to put $x = 0$

$$\Rightarrow 0 + 4y = 12$$

$$\Rightarrow y = 3$$

Thus, the line passes through (4,0) in x -axis and (0,3) in y -axis

$$\text{Using, } d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

$$\Rightarrow x_1 = 0, x_2 = 4, y_1 = 0, y_2 = 3$$

$$\Rightarrow d = \sqrt{4^2 + 3^2}$$

$$\Rightarrow d = \sqrt{25} = 5$$

Question 78

$$\frac{1}{\sqrt{7}-\sqrt{6}} - \frac{1}{\sqrt{6}-\sqrt{5}} + \frac{1}{\sqrt{5}-2} - \frac{1}{\sqrt{8}-\sqrt{7}} + 3 - \sqrt{8} \text{ is}$$

- A 7
- B 0
- C 1
- D 5

Answer: D

Explanation:

$$\frac{1}{\sqrt{7}-\sqrt{6}} - \frac{1}{\sqrt{6}-\sqrt{5}} + \frac{1}{\sqrt{5}-2} - \frac{1}{\sqrt{8}-\sqrt{7}} + 3 - \sqrt{8}$$

Rationalizing each term, we get, the denominator of each term will be 1, we get :

$$= \sqrt{7} + \sqrt{6} - (\sqrt{6} + \sqrt{5}) + \sqrt{5} + 2 - (\sqrt{8} + \sqrt{7}) + 3 + \sqrt{8}$$

$$= 2+3 = 5$$

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Question 79

The population of a town increases by 5% every year. If the present population is 9261, the population 3 years ago was

- A 8000
- B 5700
- C 6000
- D 7500

Answer: A

Explanation:

Let total population of the town 3 years ago = $100x$

It increases 5% after every year, => multiplied by 1.05

=> Population after 3 years ,i.e. present population

$$\Rightarrow 1.05 * 1.05 * 1.05 * 100x = 115.7625x = 9261$$

$$\Rightarrow x = \frac{9261}{115.7625} = 80$$

=> Population 3 years ago = $80 * 100 = 8000$

Question 80

A farmer travelled a distance of 61 km in 9 hrs. He travelled partly on foot at the rate of 4 km/hr and partly on bicycle at the rate of 9 km/hr. The distance travelled on foot is

- A 14 km
- B 171cm
- C 16 km
- D 15 km

Answer: C

Explanation:

Let the distance travelled on foot be x km

=> Distance travelled on bicycle = $(61 - x)$ km

Time taken to travel on foot = $\frac{x}{4}$ hrs

Time taken to travel on bicycle = $\frac{61-x}{9}$ hrs

$$\Rightarrow \text{Total time} = 9 = \frac{x}{4} + \frac{61-x}{9}$$

$$\Rightarrow 9x + 244 - 4x = 324$$

$$\Rightarrow 5x = 324 - 244$$

$$\Rightarrow x = \frac{80}{5} = 16 \text{ km}$$

Question 81

Walking at the rate of 4 kmph a man covers certain distance in 2 hrs 45 min. Running at a speed of 16.5 kmph the man will cover the same distance in how many minutes ?

- A 50 min.
- B 35 min.
- C 40 min.
- D 45 min.

Answer: C

Explanation:

Distance covered by the man walking at 4 kmph in 2 hrs 45 min

$$= \text{speed} * \text{time}$$

$$= 4 * (2 + \frac{45}{60}) = 4 * \frac{11}{4}$$

$$= 11 \text{ km}$$

Now, time required to cover 11 km at 16.5 kmph

$$= \frac{\text{distance}}{\text{speed}}$$

$$= \frac{11}{16.5} = \frac{2}{3} \text{ hrs}$$

$$= \frac{2}{3} * 60 = 40 \text{ minutes}$$

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Question 82

If $x = 332, y = 332, z = 332$, then the value of $x^3 + y^3 + z^3 - 3xyz$ is

- A 10000
- B 0
- C 8000
- D 9000

Answer: B

Explanation:

when $x = y = z = 332$, then $(x^2 + y^2 + z^2 - xy - yz - xz) = 0$

and hence $x^3 + y^3 + z^3 - 3xyz = 0$ as $x^3 + y^3 + z^3 - 3xyz = (x+y+z)(x^2 + y^2 + z^2 - xy - yz - xz)$

and hence the answer for this question is = 0

Question 83

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

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

Answer: A

Explanation:

$$2 + x\sqrt{3} = \frac{1}{2+\sqrt{3}}$$

Rationalizing the R.H.S.

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

$$\Rightarrow 2 + x\sqrt{3} = \frac{2-\sqrt{3}}{4-3}$$

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

Comparing both sides, we get $x = -1$

Question 84

If $\frac{m-a^2}{b^2+c^2} + \frac{m-b^2}{c^2+a^2} + \frac{m-c^2}{a^2+b^2} = 3$ then the value of m is

A $a^2 + b^2 - c^2$

B $a + b^2$

C $a^2 + b^2 + c^2$

D $a^2 - b^2 - c^2$

Answer: C

Explanation:

Since solving this problem algebraically is a very tedious process, let us put some values for a,b, and c. Then, we will try to match the options.

Let a =1, b = 2 and c=3.

$$\frac{m-1}{13} + \frac{m-4}{10} + \frac{m-9}{5} = 3$$

Taking LCM, we get,

$$\frac{10m-10+13m-52+26m-234}{130} = 3$$

$$49m = 390 + 296$$

$$49m = 686$$

$$m = 14$$

Substituting a,b and c in options, only option C gives 14 as the answer. Hence, option C is the right answer.

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Question 85

The measure of an angle whose supplement is three times as large as its complement, is

A 75°

B 30°

C 45°

D 60°

Answer: C

Explanation:

The measure of an angle whose supplement is three times as large as its complement, is

Let the angle be θ

Supplement of $\theta = 180^\circ - \theta$

and complement of $\theta = 90^\circ - \theta$

Acc. to ques

$$\Rightarrow 3 * (90^\circ - \theta) = 180^\circ - \theta$$

$$\Rightarrow 270^\circ - 3\theta = 180^\circ - \theta$$

$$\Rightarrow 2\theta = 270^\circ - 180^\circ$$

$$\Rightarrow \theta = \frac{90^\circ}{2} = 45^\circ$$

Question 86

If $m = -4$, $n = -2$, then the value of $m^3 - 3m^2 + 3m + 3n + 3n^2 + n^3$ is

A -126

B 124

C -124

D 126

Answer: A

Explanation:

We are given that $m = -4$ and $n = -2$

$$\text{Expression : } m^3 - 3m^2 + 3m + 3n + 3n^2 + n^3$$

$$= (m^3 - 3m^2 + 3m - 1) + (n^3 + 3n^2 + 3n + 1)$$

$$= (m - 1)^3 + (n + 1)^3$$

$$= (-4 - 1)^3 + (-2 + 1)^3$$

$$= (-5)^3 + (-1)^3$$

$$= -125 - 1 = -126$$

Question 87

$2x - ky + 7 = 0$ and $6x - 12y + 15 = 0$ has no solution for

A $k = -1$

B $k = -4$

C $k = 4$

D $k = 1$

Answer: C

Explanation:

NOTE : - For the pair of equations : $a_1x + b_1y + c_1 = 0$ and $a_2x + b_2y + c_2 = 0$

The equations have no solution only if : $\frac{a_1}{a_2} = \frac{b_1}{b_2} \neq \frac{c_1}{c_2}$

$$\text{Equations : } 2x - ky + 7 = 0 \text{ and } 6x - 12y + 15 = 0$$

Comparing with above formula, we get :

$$\Rightarrow \frac{2}{6} = \frac{-k}{-12}$$

$$\Rightarrow \frac{k}{12} = \frac{1}{3}$$

$$\Rightarrow k = 4$$

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Question 88

Choose the correct relation(s) from the following:

(i) $\sqrt{6} + \sqrt{2} = \sqrt{5} + \sqrt{3}$

(ii) $\sqrt{6} + \sqrt{2} < \sqrt{5} + \sqrt{3}$

(iii) $\sqrt{6} + \sqrt{2} > \sqrt{5} + \sqrt{3}$

A (ii) and (iii)

B (i)

C (ii)

D (i) and (iii)

Answer: C

Explanation:

$$\sqrt{2} = 1.414$$

$$\sqrt{3} = 1.732$$

$$\sqrt{5} = 2.236$$

$$\sqrt{6} = 2.449$$

$$\Rightarrow \sqrt{2} + \sqrt{6} = 3.863$$

$$\text{and } \sqrt{5} + \sqrt{3} = 3.968$$

$$\Rightarrow \sqrt{2} + \sqrt{6} < \sqrt{5} + \sqrt{3}$$

Thus, (ii) is correct.

Question 89

If $x \cos \theta - \sin \theta = 1$, then $x^2 - (1 + x^2) \sin \theta$ equals

A 2

B 1

C -1

D 0

Answer: B

Explanation:

$$\text{Expression : } x \cos \theta - \sin \theta = 1$$

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

$$\Rightarrow x = \sec \theta + \tan \theta \text{-----Eqn(1)}$$

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

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

$$\Rightarrow (\sec \theta - \tan \theta) = \frac{1}{x} \text{-----Eqn(2)}$$

Adding eqns(1)&(2)

$$\Rightarrow 2\sec\theta = x + \frac{1}{x} = \frac{x^2+1}{x}$$

$$\Rightarrow \sec\theta = \frac{x^2+1}{2x}$$

Subtracting eqn(2) from (1)

$$\Rightarrow 2\tan\theta = x - \frac{1}{x} = \frac{x^2-1}{x}$$

$$\Rightarrow \tan\theta = \frac{x^2-1}{2x}$$

We know that, $\sin\theta = \frac{\tan\theta}{\sec\theta}$

$$\Rightarrow \sin\theta = \frac{x^2-1}{2x} * \frac{2x}{x^2+1}$$

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

To find: $x^2 - (1 + x^2)\sin\theta$

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

$$= x^2 - (x^2 - 1)$$

$$= 1$$

Question 90

A 10 metre long ladder is placed against a wall. It is inclined at an angle of 30° to the ground. The distance (in m) of the foot of the ladder from the wall is (Given $\sqrt{3} = 1.732$)

A 8.16

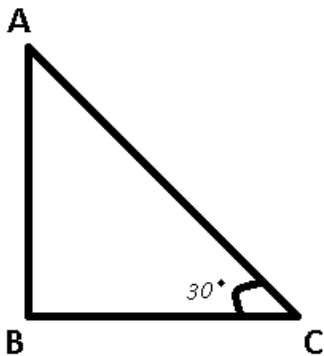
B 7.32

C 8.26

D 8.66

Answer: D

Explanation:



AC = ladder = 10 metre

BC = ?

$\angle ACB = 30^\circ$

From $\triangle ABC$

$$\cos 30^\circ = \frac{BC}{AC}$$

$$\Rightarrow \frac{\sqrt{3}}{2} = \frac{BC}{10}$$

$$\Rightarrow BC = \frac{10\sqrt{3}}{2} = 5\sqrt{3}$$

$$\Rightarrow BC = 5 * 1.732 = 8.66 \text{ metre}$$

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Question 91

If $\sin\theta + \sin^2\theta = 1$ then $\cos^2\theta + \cos^4\theta$ is equal to

- A None
- B 1
- C $\sin\theta/\cos^2\theta$
- D $\cos^2\theta/\sin\theta$

Answer: B

Explanation:

Expression : $\sin\theta + \sin^2\theta = 1$

$$\Rightarrow \sin\theta = 1 - \sin^2\theta$$

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

To find : $\cos^2\theta + \cos^4\theta$

$$= \cos^2\theta + (\cos^2\theta)^2$$

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

$$= 1$$

Question 92

If a clock started at noon, then the angle turned by hour hand at 3.45 PM is

- A $117\frac{1}{2}$
- B $104\frac{1}{2}$
- C $97\frac{1}{2}$
- D $112\frac{1}{2}$

Answer: D

Explanation:

The hour hand covers 30° in an hour

\therefore Angle turned in $3\frac{3}{4}$ hours i.e. $\frac{15}{4}$ hours

$$= \frac{15}{4} * 30^\circ = \frac{225^\circ}{2}$$

$$= 112\frac{1}{2}$$

Question 93

The numerical value of $\frac{\cos^2 45^\circ}{\sin^2 60^\circ} + \frac{\cos^2 60^\circ}{\sin^2 45^\circ} - \frac{\tan^2 30^\circ}{\cot^2 45^\circ} - \frac{\sin^2 30^\circ}{\cot^2 30^\circ}$ is

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

D $\frac{1}{2}$

Answer: B

Explanation:

$$\text{Expression: } \frac{\cos^2 45}{\sin^2 60} + \frac{\cos^2 60}{\sin^2 45} - \frac{\tan^2 30}{\cot^2 45} - \frac{\sin^2 30}{\cot^2 30}$$

$$= \frac{\left(\frac{1}{\sqrt{2}}\right)^2}{\left(\frac{\sqrt{3}}{2}\right)^2} + \frac{\left(\frac{1}{2}\right)^2}{\left(\frac{1}{\sqrt{2}}\right)^2} - \frac{\left(\frac{1}{\sqrt{3}}\right)^2}{(1)^2} - \frac{\left(\frac{1}{2}\right)^2}{(\sqrt{3})^2}$$

$$= \left(\frac{1}{2} \times \frac{4}{3}\right) + \left(\frac{1}{4} \times 2\right) - \left(\frac{1}{3} \times 1\right) - \left(\frac{1}{4 \times 3}\right)$$

$$= \frac{2}{3} + \frac{1}{2} - \frac{1}{3} - \frac{1}{12}$$

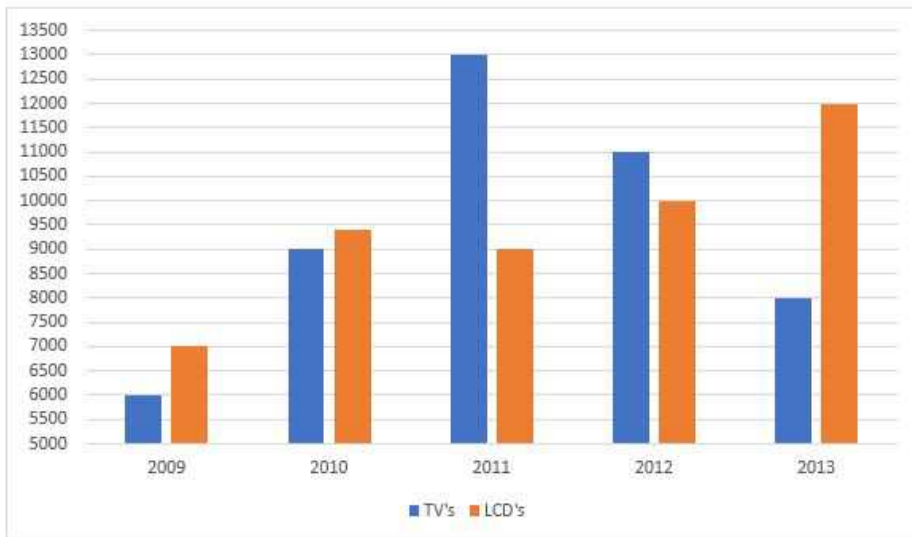
$$= \frac{9}{12} = \frac{3}{4}$$

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Instructions

Study the following bar diagram carefully and answer the following questions.

The number of the production of electronic items (TVs and LCDs) in a factory during the period from 2009 to 2013.



Question 94

The total number of products of electronic items is maximum in the year

A 2009

B 2010

C 2011

D 2013

Answer: C

Explanation:

Total no. of electronic items in :

$$2009 = 6000 + 7000 = 13000$$

$$2010 = 9000 + 9400 = 18400$$

2011 = 13000 + 9000 = 22000 [MAX]

2012 = 11000 + 10000 = 21000

2013 = 8000 + 12000 = 20000

=> Total production is maximum in **2011**

Question 95

The ratio of production of LCDs in the year 2011 and 2013 is

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

Answer: A

Explanation:

Total production of LCD's in 2011 = 9000

Total production of LCD's in 2013 = 12000

Require ratio = 9000/12000 = 3 : 4

Question 96

The difference between averages of production of TVs and LCDs from 2009 to 2012 is

- A 600
- B 700
- C 800
- D 900

Answer: D

Explanation:

Total no. of TV's produced from 2009 to 2012 = 6000 + 9000 + 13000 + 11000

=> 39,000

Average production of TV's over these four years = 39000/4 = 9750

Total no. of LCD's produced from 2009 to 2012 = 7000 + 9400 + 9000 + 10000 = 35,400

Average production of LCD's over these four years = 35400/4 = 8850

=> Required Difference = 9750 - 8850 = 900

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Question 97

The ratio of production of TVs in the years 2009 and 2010 is

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

D 3 : 2

Answer: C

Explanation:

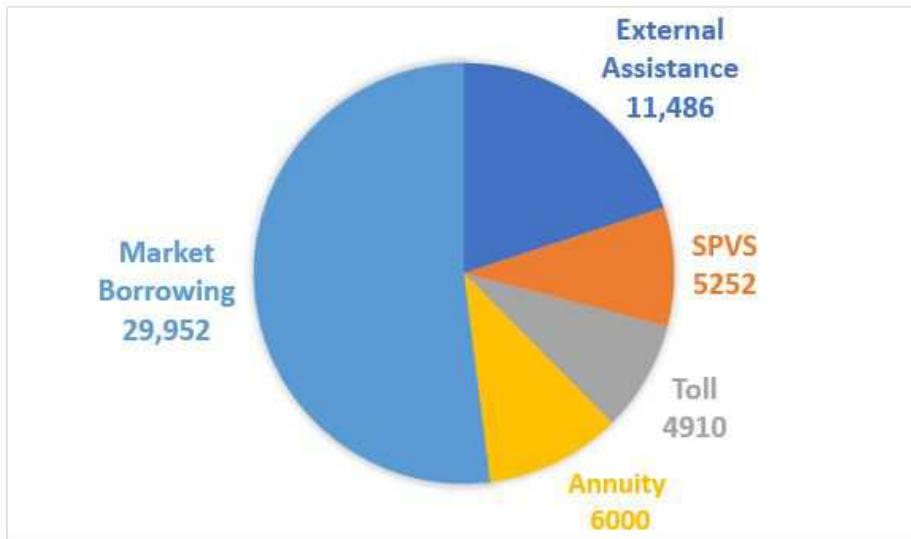
No. of TV's produced in 2009 = 6000

No. of TV's produced in 2010 = 9000

=> Required ratio = $6000/9000 = 2 : 3$

Instructions

The following pie-chart shows the sources of funds (InRs. crores) to be collected by the National Highways Authority of India (NHAI) for its Phase II projects. Study the pie-chart and answer the following Three questions



Question 98

If the toll is to be collected through an outsourced agency by allowing a maximum 10% commission, how much amount should be permitted to be collected by the outsourced agency, so that the project is supported with Rs. 4,910 crores ?

A Rs. 6,213 crores

B Rs. 5,827 crores

C Rs. 5,401 crores

D Rs. 5,316 crores

Answer: C

Explanation:

Amount required to support the project = 4910 crore

Maximum compensation = 10%

=> 10% of 4910 cr = $\frac{10}{100} * 4910 \text{ cr} = 491 \text{ cr}$

Amount permitted = 4910 cr + 491 cr = 5401 cr

Question 99

If NHAI could receive a total of Rs. 9,695 crores as External Assistance, by what percent (approximately) should it increase the Market Borrowing to arrange for the shortage of funds ?

A 4.5%

- B 7.5%
- C 6%
- D 8%

Answer: C

Explanation:

Shortage of funds arranged through External Assistance = 11486 - 9695 = 1791 crores

=> Increase required in market borrowing = Rs. 1791 crore

$$\begin{aligned} \text{\% increase required} &= \frac{1791}{29952} * 100 = 5.98\% \\ &= \sim 6\% \end{aligned}$$

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Question 100

The central angle corresponding to Market Borrowing is

- A 52°
- B 137.8°
- C 187.2°
- D 192.4°

Answer: C

Explanation:

Total funds collected = 11486 + 5252 + 4910 + 6000 + 29952 = 57,600 crore

$$\begin{aligned} \text{Central angle corresponding to Market Borrowing} &= \frac{29952}{57600} * 360 \\ &= 187.2^\circ \end{aligned}$$

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Reasoning

Instructions

In the following six questions, select the related word/letters/number from the given alternatives.

Question 101

AEFJ : KOPT : ? : QUVZ

- A HKQL
- B GLKP
- C GKLP
- D HLKP

Answer: C

Explanation:

Expression = AEFJ : KOPT

The pattern followed is :

A	E	F	J
(+10)	(+10)	(+10)	(+10)
K	O	P	T

Similarly, for QUVZ :

G	K	L	P
(+10)	(+10)	(+10)	(+10)
Q	U	V	Z

=> Ans - (C)

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Question 102

2 : 32 :: 3 : ?

- A 143
- B 243
- C 293
- D 183

Answer: B

Explanation:

Expression = 2 : 32 :: 3 : ?

The pattern followed is = $n : n^5$

Eg = $2 : 2^5 = 2 : 32$

Similarly, $3^5 = 243$

=> Ans - (B)

Question 103

D × H : 4 × 8 , as M × Q : ?

- A 14 × 18
- B 12 × 17
- C 12 × 16
- D 13 × 17

Answer: D

Explanation:

Given = D × H : 4 × 8

Alphabets in English alphabetical series are given numbers starting from A = 1 , B = 2 , C = 3 and so on.

Similarly, M = 13 and Q = 17

Thus, M × Q : 13 × 17

=> Ans - (D)

Question 104

Haematology : Blood : Phycology : ?

- A Diseases
- B Fungi
- C Fishes
- D Algae

Answer: D

Explanation:

Haematology is the branch of medicine involving study and treatment of the blood. Similarly, Phycology is the branch of botany concerned with seaweeds and other **algae**.

=> Ans - (D)

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Question 105

Pride of Lions :: _____ of Cats

- A Bunch
- B Herd
- C School
- D Clowder

Answer: D

Explanation:

A group of lions is called Pride of Lions, similarly **Clowder** of cats is a group of cats.

=> Ans - (D)

Question 106

MAN : PDQ :: WAN : ?

- A YDQ
- B ZDQ
- C NAW
- D YQD

Answer: B

Explanation:

Expression = MAN : PDQ

The pattern followed is =

M	A	N
(+3)	(+3)	(+3)
P	D	Q

Similarly, for WAN :

W	A	N
(+3)	(+3)	(+3)
Z	D	Q

=> Ans - (B)

Instructions

In the following six questions, find the odd word/number/letters/number pair from the given alternatives.

Question 107

A GFHJ

B CBEF

C EDGH

D IHKL

Answer: A

Explanation:

(A) : G (-1 letter) = F (+2 letters) = H (+2 letters) = J

(B) : C (-1 letter) = B (+3 letters) = E (+1 letters) = F

(C) : E (-1 letter) = D (+3 letters) = G (+1 letters) = H

(D) : I (-1 letter) = H (+3 letters) = K (+1 letters) = L

=> Ans - (A)

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Question 108

A 5061

B 4025

C 7202

D 6023

Answer: A

Explanation:

The sum of digits of each number :

(A) : $5061 = 5 + 0 + 6 + 1 = 12$

(B) : $4025 = 4 + 0 + 2 + 5 = 11$

(C) : $7202 = 7 + 2 + 0 + 2 = 11$

(D) : $6023 = 6 + 0 + 2 + 3 = 11$

=> Ans - (A)

Question 109

A 104 : 78

B 96 : 80

C 64 : 48

D 80 : 60

Answer: B

Explanation:

The ratio of each number is :

$$(A) = 104 : 78 = \frac{4}{3}$$

$$(B) = 96 : 80 = \frac{6}{5}$$

$$(C) = 64 : 48 = \frac{4}{3}$$

$$(D) = 80 : 60 = \frac{4}{3}$$

=> Ans - (B)

Question 110

A Night

B Morning

C Noon

D Evening

Answer: C

Explanation:

Night, morning and evening are periods of a day, while noon is a time (12 pm).

=> Ans - (C)

SSC CGL Important Questions PDF

Question 111

A Fraternity

B Liberty

C Society

D Equality

Answer: C

Explanation:

Liberty, Equality and Fraternity are all ideals, hence society is the odd one out.

=> Ans - (C)

Question 112

A KQNN

B DWFU

C EVHS

D HSKP

Answer: B

Explanation:

If we combine the first and third and fourth and second letters in each word in that order, we find that there is a gap of 3 letters in between.

(A) : K (+3 letters) = N , N (+3 letters) = Q

(B) : D (+2 letters) = F , U (+2 letters) = W

(C) : E (+3 letters) = H , S (+3 letters) = V

(D) : H (+3 letters) = K, P (+3 letters) = S

=> Ans - (B)

Instructions

For the following questions answer them individually

Question 113

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

1: Elephant

2: Cat

3: Mosquito

4: Tiger

5: Whale

A 2, 5, 1, 4, 3

B 5, 3, 1, 2, 4

C 1, 3, 5, 4, 2

D 3, 2, 4, 1, 5

Answer: D

Explanation:

Considering size of given animals, if we arrange them in increasing order of their size, Mosquito, Cat, Tiger, Elephant, Whale.

Hence order is 3,2,4,1,5.

Therefore, Option D is correct.

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Question 114

Choose the correct alternative to complete the series. Lily, Daisy, Datura, ?

A Jasmine

B Sun Flower

C Hibiscus

D Marigold

Answer: A

Explanation:

Series : Lily, Daisy, Datura, ?

The number of letters in the words are in increasing order = 4, 5, 6

So, the next word will contain 7 letters, and among the options the correct word = Jasmine

=> Ans - (A)

Instructions

In the following two questions, which one set of letters when sequentially placed at the gaps in the given letter series shall complete it ?

Question 115

a__dba__bcad__da__cd

A aabbccdd

B bccdbcab

C abcd dcba

D cbcddcbb

Answer: B

Explanation:

The pattern is that, in a group of 4 letters, the combination of first four alphabets is used.

=> **abcd** **bacd** **bcad** **bcda** **abcd**

=> Ans - (B)

Question 116

ccbab _ caa _ bccc _ a

A abb

B bab

C bbb

D baa

Answer: B

Explanation:

Expression : ccbab _ caa _ bccc _ a

The pattern followed is that, in a group of 4 letters, the first two letters are repeated.

=> ccba **bbca** aabc ccba

=> Ans - (B)

General Science Notes for SSC CGL

Instructions

In the following two questions, a series is given, with one term missing. Choose the correct alternative from the given ones that will complete the series.

Question 117

3, 5, 9, 17, ?

A 42

B 26

C 65

D 33

Answer: D

Explanation:

here the given pattern is 3, 5, 9, 17, ?

let the missing term be y

we can see that

$$5 - 3 = 2^1$$

$$9 - 5 = 4 = 2^2$$

$$17 - 9 = 8 = 2^3$$

as we can see that every time the difference between consecutive terms is getting increased by power of 2

and hence , $y - 17 = 2^4 = 16$

$$y = 33$$

Question 118

4, 6, 10, 16, 24, ?

A 40

B 28

C 30

D 34

Answer: D

Explanation:

here the given pattern is 4, 6, 10, 16, 24, ?

let the missing term be y

$$6 - 4 = 2$$

$$10 - 6 = 4$$

$$16 - 10 = 6$$

$$24 - 16 = 8$$

as we can see that every time the difference is getting increased by 2 so

$$y - 24 = 10$$

$$y = 34$$

Instructions

For the following questions answer them individually

Question 119

In a row of men, Manoj is 30th from the right and Kiran is 20th from the left. When they interchange their position, Manoj becomes 35th from the right. What is the total number of men in the row?

A 34

B 45

C 44

D 54

Answer: D

Explanation:

In a row of men, Manoj is 30th from the right and Kiran is 20th from the left.

When they interchange the positions, Manoj becomes 35th from the right.

Hence, total no. of men in the row = $35 + 20 - 1$.

$$= 54.$$

Hence, Option D is correct.

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Question 120

A train starts from station A and reaches B 15 minutes late when it moves with 40 km/hr and 24 minutes late when it goes 30 km/hr. The distance between the two stations is

- A 24 km
- B 16 km
- C 18 km
- D 21 km

Answer: C

Explanation:

Let the distance between the two stations be d km and time taken be t hours.

When it moves with 40 km/hr, it reaches 15 mins late, so total time taken is

$$\Rightarrow \frac{d}{40} = t + \frac{15}{60} \text{-----Eqn(1)}$$

Similarly,

$$\Rightarrow \frac{d}{30} = t + \frac{24}{60} \text{-----Eqn(2)}$$

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

$$\Rightarrow \frac{d}{30} - \frac{d}{40} = \frac{9}{60}$$

$$\Rightarrow \frac{d}{120} = \frac{9}{60}$$

$$\Rightarrow d = 9 \times 2 = 18 \text{ km}$$

Question 121

Unscramble the following letters to frame a meaningful word. Then find out the correct numerical position of the letters :

B	C	U	S	M	E	L	R	N	A
1	2	3	4	5	6	7	8	9	10

- A 2 1 3 4 6 8 9 7 5 10
- B 6 1 4 3 2 5 8 7 9 10
- C 3 1 5 7 10 4 2 6 9 8
- D 3 9 4 2 8 10 5 1 7 6

Answer: D

Explanation:

Using table given in the question,

A-2 1 3 4 6 8 9 7 5 10 = CBUSERNLMA.

B-6 1 4 3 2 5 8 7 9 10 = EBSUCMRLNA.

C-3 1 5 7 10 4 2 6 9 8 = UBMLASCENR.

D-3 9 4 2 8 10 5 1 7 6 = UNSCRAMBLE.

Only, Option D makes sense.

Hence, Option D is the correct answer.

Question 122

Using the following code and key, decode the given coded word :

Code	L	X	P	Z	J	Y	Q	M	N	B
Key	b	a	e	s	p	r	h	i	g	t

Coded word: ZBYXMNQB

- A strength
- B height
- C struggle
- D straight

Answer: D

Explanation:

From the given code and key table,

Z=s.

B=t.

Y=r.

X=a.

M=i.

N=g.

Q=h.

B=t.

Therefore, Option D is correct.

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Question 123

In a certain code "MOUSE" is written as "PRUQC". How is "SHIFT" written in that code?

- A VKIDR
- B VJIDR
- C VIKRD
- D RK.IVD

Answer: A

Explanation:

"MOUSE" is written as "PRUQC"

The pattern followed is :

M	O	U	S	E
(+3)	(+3)	(+0)	(-2)	(-2)
P	R	U	Q	C

Similarly, for SHIFT :

S	H	I	F	T
(+3)	(+3)	(+0)	(-2)	(-2)
V	K	I	D	R

=> Ans - (A)

Question 124

Seven persons A, B, C, D, E, F and G are standing in a straight line.

- a) D is to the right of G.
- b) C is between A and B.
- c) E is between F and D.
- d) There are three persons between G and B.

Who is on the extreme left?

- A G
- B A
- C B
- D D

Answer: A

Explanation:

From the given information, arrangement can be formed as,
G D E F B C A.

Hence, Person at the extreme left is 'G'.

Hence, Option A is correct.

Question 125

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

- A MERCY
- B MOUSE
- C SOBER
- D ROME

Answer: A

Explanation:

The word CUMBERSOME does not contain 'Y', hence the word 'Mercy' cannot be formed.

=> Ans - (A)

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Question 126

Name a single letter, which can be prefixed to the following words in order to obtain entirely new words ?
TILL TABLE PILE TAB PRING

- A C
- B S
- C B
- D H

Answer: B

Explanation:

Words : TILL TABLE PILE TAB PRING

If 'S' is prefixed to each of the word above, new words will be :

STILL , STABLE , SPILE , STAB , SPRING

=> Ans - (B)

Question 127

In a certain code, '253' means 'books are old'; '546' means 'man is old' and '378' means 'buy good books.' What stands for "are" in that code?

A 6

B 2

C 4

D 5

Answer: B

Explanation:

The common word in the first two statements is 'old' = 5

And the common word in the first and last statements is 'books' = 3

Now, the only word left in 1st statement is "are" = 2

=> Ans - (B)

Question 128

If, + stands for division; x stands for addition; - stands for multiplication; ÷ stands for subtraction, which of the following is correct ?

(a) $46 \times 6 \div 4 - 5 + 3 = 74$

(b) $46 - 6 + 4 \times 5 \div 3 = 71$

(c) $46 \div 6 \times 4 - 5 + 3 = 75.5$

(d) $46 \times 6 - 4 + 5 \div 3 = 70.1$

A c

B d

C b

D a

Answer: C

Explanation:

According to sign convention given in question,

b- $46 \times 6 \div 4 + 5 - 3 = 71$.

b- $46 \times 1.5 + 5 - 3 = 71$.

b- $69 + 5 - 3 = 71$.

b- $74 - 3 = 71$.

b- $71 = 71$.

Hence, Option C is correct.

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Question 129

If $+ = \times$, $- = \div$, $\times = +$, $\div = -$, then which is the correct equation out of the following?

A $18 - 6 \times 7 \div 2 + 8 = 63$

B $18 \div 6 + 4 - 2 \div 3 = 22$

C $18 + 6 - 4 \times 27 \div 3 = 48$

D $18 \times 6 - 4 + 7 \times 8 = 47$

Answer: C

Explanation:

As per sign convention given in the question,

$$18 \times 6 \div 4 + 27 - 3 = 48.$$

$$18 \times 1.5 + 27 - 3 = 48.$$

$$24 + 24 = 48.$$

$$48 = 48.$$

Hence, Option C is correct.

Instructions

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

Question 130

3	2
4	24

2	-1
-2	4

6	5
0	?

A 1

B 30

C 11

D 0

Answer: D

Explanation:

3	2
4	24

2	-1
-2	4

6	5
0	?

let the missing term be y

here in 1st figure, the pattern is $(3 \times 2 \times 4) = 24$

in 2nd figure, $(2 \times -1 \times -2) = 4$

in 3rd figure also the same thing will be followed,

$$y = (6 \times 5 \times 0) = 0$$

Question 131

7	5	3
8	4	9
2	8	?
112	160	162

A 12

B 4

C 6

D 8

Answer: C

Explanation:

7	5	3
8	4	9
2	8	?
112	160	162

let the missing term be y

here we can see that in every column the term in 4th row is multiple of terms in other rows

$$112 = 7 \times 8 \times 2$$

$$160 = 5 \times 4 \times 8$$

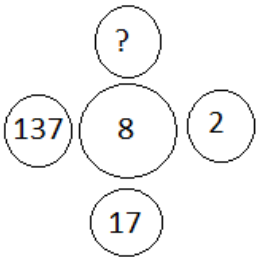
and this pattern will also follow in 3rd column and hence

$$162 = 3 \times 9 \times y$$

$$y = 6$$

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Question 132



A 9107

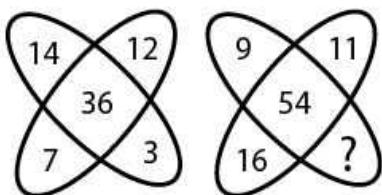
B 97

C 907

D 1097

Answer: D

Question 133



A 16

B 12

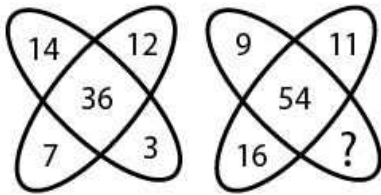
C 17

D 18

Answer: D

Explanation:

let the missing term be y



here,

$$36 = 14 + 12 + 7 + 3$$

and hence

$$54 = 9 + 11 + 16 + y$$

$$y = 18$$

Question 134

9	11	13
13	15	17
10	12	14
14	16	18
11	13	?

A 21

B 22

C 14

D 15

Answer: D

Explanation:

9	11	13
13	15	17
10	12	14
14	16	18
11	13	?

let the missing term be y

here we can see that in 1st column

$$9 + 4 = 13$$

$$13 - 3 = 10$$

$$10 + 4 = 14$$

$$14 - 3 = 11$$

now in 2nd column

$$11 + 4 = 15$$

$$15 - 3 = 12$$

$12 + 4 = 16$

$16 - 3 = 13$

hence the same thing will be followed in column 3 and so ,

$13 + 4 = 17$

$17 - 3 = 14$

$14 + 4 = 18$

$18 - 3 = 15$ and hence $y = 15$

SSC CHSL Previous Question papers (download pdf)

Instructions

For the following questions answer them individually

Question 135

Sunita rode her scooter northwards, then turned left and then again rode to her left 4 km. She found herself exactly 2 kms West of her starting point. How far did she ride northwards initially?

A 6 km

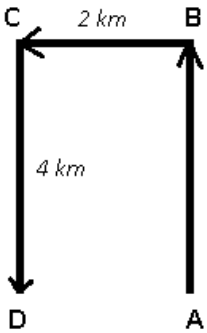
B 2 km

C 4 km

D 5 km

Answer: C

Explanation:



Let Sunita started from point A, and travelled north to reach B, then she turned left and reached point C, again she turned left and travelled for 4 km. So, D is 2 km to the west of A.

Thus, $AB = CD = 4$ km

=> Ans - (C)

Question 136

Pinky walks a distance of 600 metre towards East, turns left and moves 500 metre, then turns left and walks 600 metre and then turns left again and moves 500 metre and halts. At what distance in metres is she from the starting point?

A 600

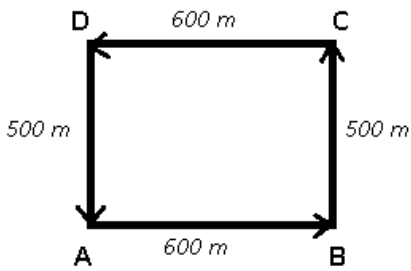
B 2200

C 500

D 0

Answer: D

Explanation:



Let Pinky started from point A and travelled 600 m east to reach B, then she turned left to reach C after travelling 500 m, again she turned left and travelled for 600 m, and finally stopped at point A.

∴ Her final position and initial positions are same, thus she is 0 m from the starting point.

=> Ans - (D)

Instructions

In the following two questions, one statement is given followed by two Conclusions, I and II. You have to consider the statement to be true, even if it seems to be at variance from commonly known facts. You are to decide which of the given conclusions can definitely be drawn from the given statement. Indicate your answer.

Question 137

Statement : Aggressive animals can be trained with care and affection to behave as the occasion demands.

Conclusions

- I. Trained dogs cannot be aggressive.
- II. Animals are always aggressive unless care and affection is given to them.

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

Answer: D

Explanation:

The statement indicates that aggressive animals can be trained to behave but it does not conclude that all animals are in their aggressive mindset before training, or trained dogs may or may not be aggressive.

Thus, neither conclusion follows.

=> Ans - (D)

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Question 138

Statement : Every school should promote partnerships that will increase parental involvement and participation for promoting the growth of children.

Conclusions :

- I. For the growth of the children, parents should be involved in various school activities.
- II. Involvement of parents in school activities has no influence on the growth of the children.

- A Both I and II follow

- B Only I follows
- C Only II follows
- D Neither I nor II follows

Answer: B

Explanation:

The given statement clearly indicates that parents should be involved in school activities for the growth of their child, which is derived in the first conclusion but conclusion II states the opposite.

Thus, only conclusion I follows.

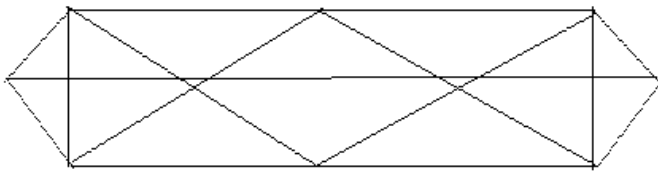
=> Ans - (B)

Instructions

For the following questions answer them individually

Question 139

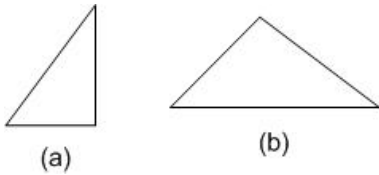
How many triangles are there in the figure ?



- A 24
- B 14
- C 28
- D 20

Answer: C

Explanation:

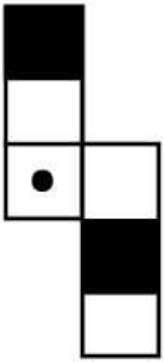


(a)-There are 12 such triangles.
 (b)-There are 16 such triangles.
 Total no. of triangles = 12+16.
 = 28.

Hence, Option C is correct.

Question 140

The figure given on the left hand side is folded to form a box. Choose from the alternatives (2), (3) and (4) the boxes that is similar to the box formed



(1)



(2)



(3)



(4)

A (2) and (3) only

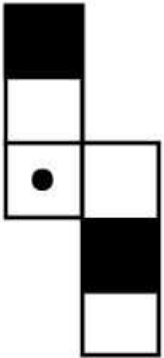
B (1) (3) and (4) only

C (3) and (4) only

D (1) and (4) only

Answer: C

Explanation:

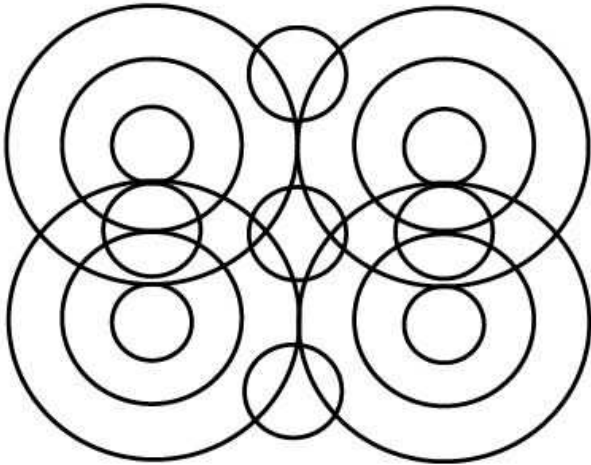


When above figure is folded to form a cube we have,
Two out of three unshaded faces are opposite to each other and hence (1) cannot be true.
The face containing dot lies opposite to one of the shaded faces.
Hence, boxes (3) and (4) are similar to cube formed.
Therefore, Option C is correct.

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Question 141

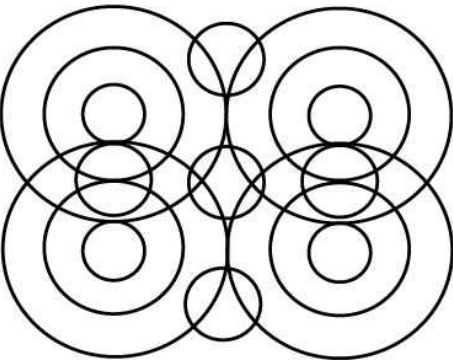
Find out the number of circles in the given figure :



- A 14
- B 16
- C 17
- D 18

Answer: C

Explanation:



There are 4 sets of 3 concentric circles and five circles which are common to atleast two of the circles.

Hence, Total number of circles in figure= $4 \times 3 + 5$.

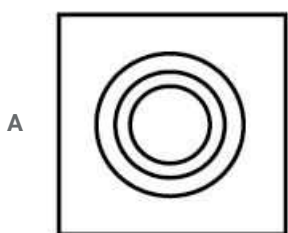
= 17.

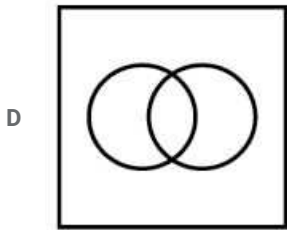
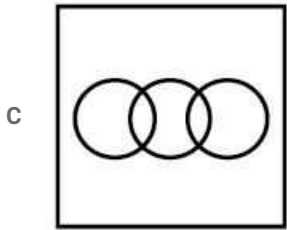
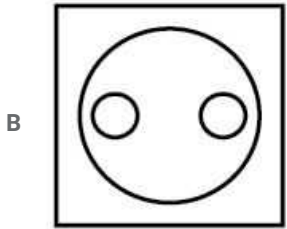
Hence, Option C is correct.

Question 142

Identify the diagram that best represents the relationship among the classes given below :

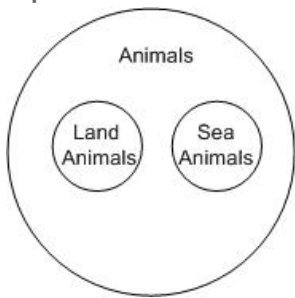
Animals, land animals, sea animals





Answer: B

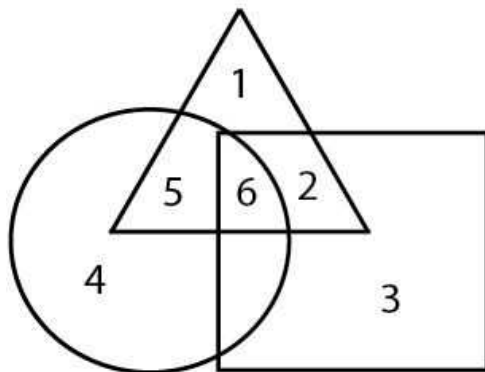
Explanation:



Since, all land animals and sea animals belong to animals class and have no relation to each other. Hence, Option B depicts the best relations.

Question 143

Which number indicates doctors who are not married?



- △ – Doctors
- – Professors
- – Married People

A 6

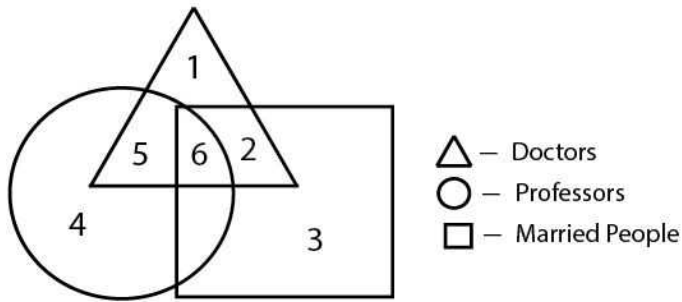
B 4

C 2

D 1

Answer: D

Explanation:



From the figure,

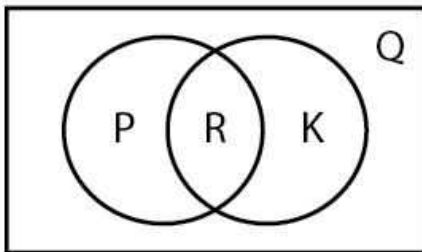
The Number which indicates Doctors who are not married are the ones which are part of triangle but are not part of either circle or rectangle.

Only 1 is such number.

Hence, Option D is correct.

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Question 144



In the, figure:

Q represents all quadrilaterals K represents all Kites

R represents all Rhombus

P represents all Parallelogram

The statement 'Rhombus is also a Kite' can be described as

A P and K is nothing but R

B P or K is nothing but R

C P and R is nothing but K

D P or R is nothing but K

Answer: A

Explanation:

Rhombus is also a kite.

Rhombus is also a part of parallelogram.

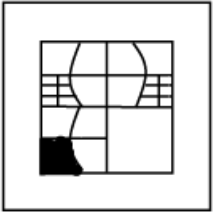
Therefore, statement 'Rhombus is also a Kite' can be described as 'P and K is nothing but R'.

Hence, Option A is right.

Instructions

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

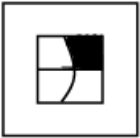
Question 145



A



B



C



D

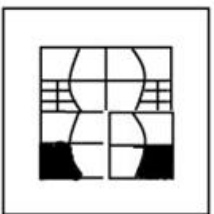


Answer: A

Explanation:

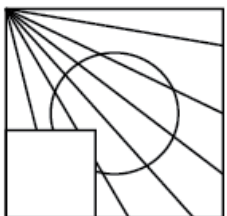


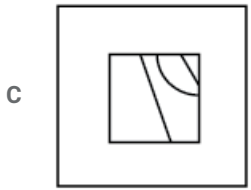
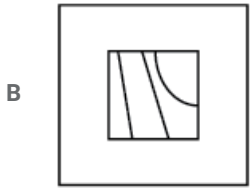
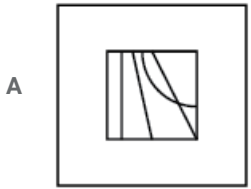
fits the figure.



Hence, Option A is correct.

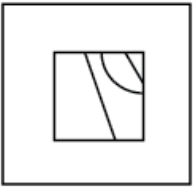
Question 146



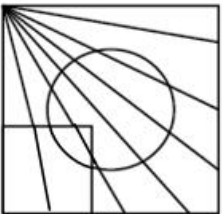


Answer: C

Explanation:



fits the figure.



Hence, Option C is correct.

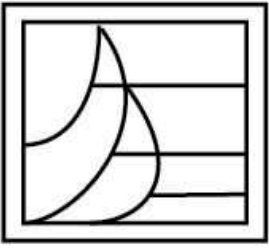
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Instructions

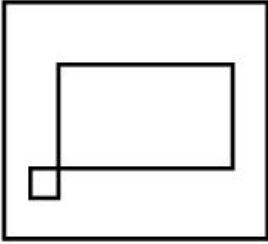
For the following questions answer them individually

Question 147

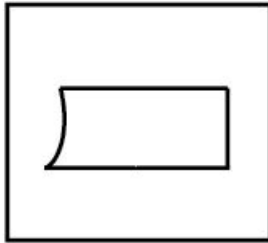
From the given answer figures, select the one which is hidden/ embedded in the question figure :



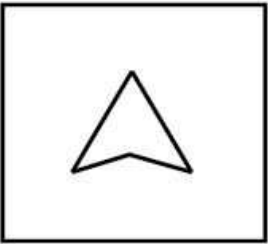
A



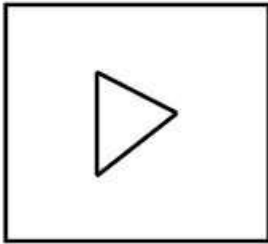
B



C

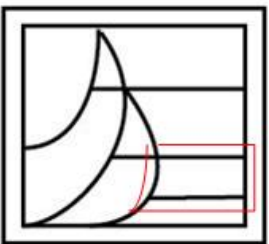


D

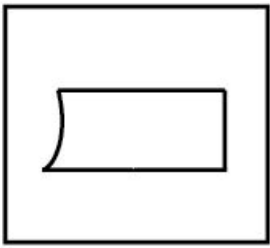


Answer: B

Explanation:



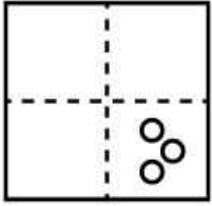
Hence, we can obtain-



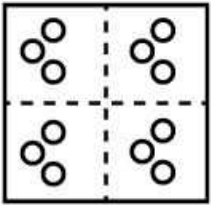
Hence, Option B is correct.

Question 148

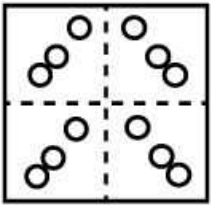
A piece of paper is folded and cut as shown below in the question figure. From the given answer figure, indicate how it will appear when opened.



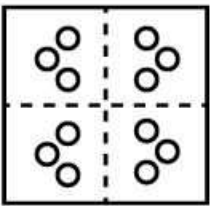
A



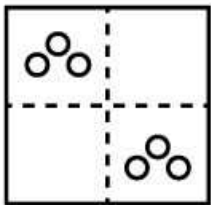
B



C



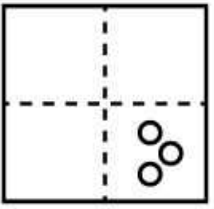
D



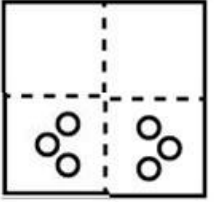
Answer: C

Explanation:

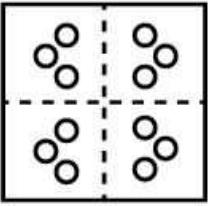
By folding and cutting the paper accordingly, we get-
Stage 1,



Stage 2,



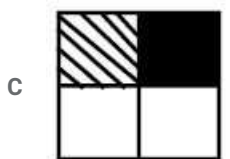
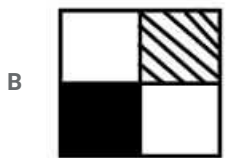
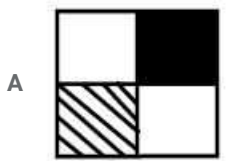
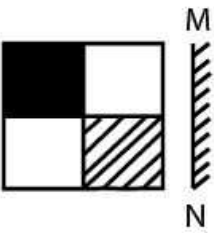
Stage 3,



Hence, Option C is correct.

Question 149

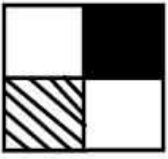
If a mirror is placed on the line MN, then which of the answer figures is the right image of the given figure?



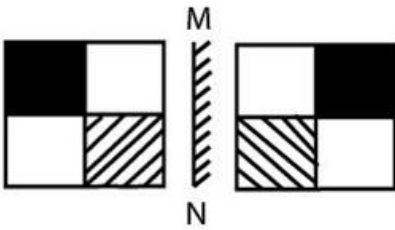
Answer: A

Explanation:

A mirror image in a plane mirror is a reflection of an object that appears almost identical but is reversed in the direction perpendicular to the mirror surface.



fits the given figure.



Hence, Option A is the correct answer.

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Question 150

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., 'A' can be represented by 01, 14 etc. and 'O' can be represented by 59, 67 etc. Similarly, you have to identify the set for the word 'PEARL'

MATRIX I

	0	1	2	3	4
0	P	A	G	R	Z
1	G	R	Z	P	A
2	Z	P	A	G	R
3	A	G	R	Z	P
4	R	Z	P	A	G

MATRIX II

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

- A 00, 55, 22, 11, 96
- B 00, 66, 14, 32, 56
- C 13, 77, 30, 14, 88
- D 12, 88, 43, 32, 89

Answer: A

Explanation:

From matrix I and matrix II,
00=P.
55=E.
22=A.
11=R.
96=L.
Hence, Option A is correct.

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English

Instructions

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

Question 151

By May next year I have been working in this college for twenty years.

- A No error
- B By May next year
- C I have been working in this college
- D For twenty years.

Answer: C

Explanation:

Part C contains the error.

Since the given sentence is in future perfect continuous tense.

'I would have been working' is the correct usage of the sentence.

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Question 152

Everyone of us should realise that any act of negligence will cause a great harm to our country's security.

- A No error
- B Everyone of us should realise that
- C any act of negligence will cause
- D a great harm to our country's security.

Answer: A

Explanation:

The given construction is correct.

Option A is hence the correct choice.

Question 153

I shall look forward to being with you sometime next month.

- A No error
- B I shall look forward
- C To being with you
- D Sometime next month.

Answer: A

Explanation:

The given sentence is correct.

Option A is hence the correct answer

Question 154

I really do regret not to learn to play the violin when I had so many opportunities to learn and practise in school.

- A No error
- B I really do regret not to learn to play the violin
- C When I had so many opportunities
- D To learn and practise in school.

Answer: B

Explanation:

The error is in part B of the sentence.

There are some verbs which sometimes takes a to infinitive after it or a gerund. Eg: regret, forget, remember, stop, try.

A gerund expresses a past action and an infinitive expresses a future action.

Here, a past action is being expressed. So here it has to be a gerund. Thus, the correct sentence is 'I really do regret not learning to play..'

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Question 155

The government granted relief payments of Rs. 5,000 each to those who injured in the fire accident.

- A No error
- B The government granted
- C Relief payments of Rs. 5,000 each
- D To those who injured in the fire accident.

Answer: D

Explanation:

The error is in the part D.

The verb `were' is missing after relative pronoun `who'

Use `were' after `who'.

As the sentence is in the past form `were' will come.

Instructions

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

Question 156

He went there

- A on foot
- B walking on foot
- C by foot
- D with foot

Answer: A

Explanation:

The correct option is A.

On foot - means walking rather than travelling by car or using other transport.

"By" in this context normally refers to a mode of transportation whereas "in" or "on" would refer to your position whilst travelling.

By foot -By car,by bus.

Walking on foot - usage of walking is redundant over here.

With foot-this doesn't make any sense.

Question 157

After your long illness I am happy to see you

- A up and round
- B up and about
- C by and by
- D up and down

Answer: B

Explanation:

The correct answer is option number- B

Up and about -Moving around, especially after a period of injury, illness, or inactivity.

By and by - before long, eventually, ultimately, Finally.

Up and down -sometimes successful & sometimes not successful,In one direction & then in the opposite direction, especially repeatedly.

Only option B is contextually Correct.

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Question 158

You must..... your career with all seriousness.

- A pursue
- B follow
- C complete

D direct

Answer: A

Explanation:

The correct answer is option number -A.

Pursue- strive for,work towards something,engage in.

Follow -to go after,to carry out

Complete- accomplish,finish.

Direct-straightforward,sincere,to manage,to aim.

Only option A is contextually Correct.

Question 159

Making pies and cakesMrs. Reddy's speciality.

A has

B are

C were

D is

Answer: D

Explanation:

The correct answer is option number -D

Here the subject `making' is a gerund.

So it will be treated as a singular so verb will be singular.

Hence the usage of `is' will be correct here.

Question 160

The deserted garden was infested..... weeds.

A with

B for

C into

D on

Answer: A

Explanation:

The correct answer is option number -A.

Infested with - overspread, in large numbers, typically so as to cause damage or disease.

So usage of preposition `with' after infested is correct.

Usage of other preposition doesn't make any sense.

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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 161

Devout

- A Pious
- B Solemn
- C Loyal
- D Dedicated

Answer: A

Question 162

Predilection

- A Preference
- B Favour
- C Whim
- D Prejudice

Answer: A

Question 163

Effigy

- A Organ
- B Dummy
- C Imagery
- D Reflection

Answer: B

General Science Notes for SSC CGL

Instructions

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

Question 164

Tremulous

- A Healthy
- B Steady
- C Obese
- D Young

Answer: B

Question 165

Fake

- A Wrong
- B Fanciful
- C Real
- D Ideal

Answer: C

Question 166

Disconsolate

- A Prominent
- B Joyous
- C Thankful
- D Unprejudiced

Answer: B

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Instructions

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

Question 167

Their attempt to get back the stolen necklace proved to be a wild goose chase.

- A delayed action
- B wise decision
- C useless search
- D timely action

Answer: C

Question 168

The day the new product was launched, people made a beeline to purchase it.

- A went online
- B Rushed
- C were doubtful
- D Refused

Answer: B

Question 169

At his wit's end, he turned to his old trade.

- A Overjoyed
- B After careful thinking
- C Confidently
- D Not knowing what to do

Answer: D

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Question 170

When it comes to dancing, he is all-thumbs.

- A lazy
- B an expert
- C a trainer
- D clumsy

Answer: D

Question 171

He usually goes to bed very early and rises with the lark.

- A at midnight
- B very late
- C very early
- D after sunrise

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 which may improve the sentence. Choose the correct alternative. In case no improvement is needed, your answer is No Improvement.

Question 172

The second pigeon flew just as the first pigeon had flown.

- A No improvement
- B one had done
- C one had flown away
- D had done

Answer: C

Explanation:

The correct answer is option number -C.

Past perfect tense will be used as there are two instances of the past.

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Question 173

The old man has acquired experience through age.

- A No improvement
- B developed experience
- C experienced
- D got experience

Answer: A

Explanation:

The correct answer is option number -A.

Getting experience through age means to get knowledge, events of which one is cognizant.

With increasing age he got number of experience through day to day happenings, events

Question 174

Water and soil pollutants find their entry into the body through ingestion of contaminated water or food.

- A No improvement
- B digestion of contaminated
- C injection of contaminated
- D passage of contaminated

Answer: A

Explanation:

The correct answer is option number -A.

Ingestion of contaminated water & food -

Ingestion means intake of something.

Here sentence implies that water & soil pollutants find their way through intake of water or food.

Remaining options doesn't add any meaning here.

Question 175

He lives far from the station.

- A No improvement
- B away from the station
- C a long way from the station
- D off the station

Answer: C

Explanation:

The correct answer is -C

If we say that something is **far from** a particular thing or **far from** being the case, you are emphasizing that it is not that particular thing or not at all the case, especially when people expect or assume that it is.

Synonyms: not at all, not, by no means, absolutely not

Here sentence seems to imply that he lives long way from the station.

So correct option will be -C

A long way from the station - a long distance place.

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Question 176

Mumbai is famous because of its textiles.

- A No improvement
- B at
- C in
- D for

Answer: D

Explanation:

The correct answer is option number -D

Famous for - well known for, famed, popular.

Because of - on account of, as a result of, as a consequence of, owing to, by reason of, on grounds of, by dint of, due to

So usage of `for' after famous fits in here.

Question 177

They spoke about the weather.

- A No improvement
- B said
- C talked
- D expressed

Answer: C

Explanation:

The correct answer is option number - C

Talked -it means a conversation /discussion.

speak tends to be used for one-sided communications

Ex- she spoke to her employees.

whereas **talk** implies a conversation or discussion **between** two or more people

ex- Everyone was **talking** when he walked into the room

Question 178

Mr. Mukherjee knows ten languages, isn't it ?

- A No improvement
- B doesn't Mr. Mukherjee
- C hasn't he
- D doesn't he

Answer: D

Explanation:

The correct answer is option number -D.

The given sentence is of question tag.

The main sentence is in positive form. So question tag will be negative.

Since the verb(knows) is singular we will use 'does' while making question tag.

Option D will be the correct answer.

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Question 179

It's high time that you go home.

- A No improvement
- B are going
- C went
- D gone

Answer: C

Explanation:

The correct answer is option number -C

It is the appropriate time (that something happen); it is long overdue (that something happen).

Now if you feel that it is already late for something to happen, you can use the expression 'It's high time...'. This structure might look unusual, because it uses a past tense form to talk about the present or future. In fact, past tenses are used to talk about the present / future in many phrases with **time**.

Now if you feel that it is already late for something to happen, you can use the expression 'It's high time...'. This structure might look unusual, because it uses a past tense form to talk about the present or future. In fact, past tenses are used to talk about the present / future in many phrases with **time**.

So 'went' will be the correct answer.

Question 180

Drinking tea is an English habit.

- A No improvement
- B tradition
- C convention
- D custom

Answer: D

Explanation:

The correct answer is option number - D.

Usage of `habit' is incorrect here.

The correct word will be `custom'.

Habit - it means the way an individual does things on a regular base.

Ex- Sleeping late is a bad habit.

Custom- The long established tradition of an entire society.

Ex- Dowry is an old custom which is still followed by many people in India.

Convention- Set of unwritten /explicit rules agreed upon within a group.

It will applied to people with common interests not a society.

Ex- Programmers use coding conventions to ensure easier readability of each others code

Question 181

He is wanting in a little common sense.

- A No improvement
- B Lacks
- C is lacking in
- D needs some

Answer: B

Explanation:

Option B is the correct answer.

Given sentence means the persons is having a little common sense.

Sentence is in simple present tense so lacks fits in correctly.

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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 182

Medical study of skin and its diseases.

- A Orthopaedics
- B Dermatology
- C Endocrinology
- D Gynaecology

Answer: B

Question 183

A process involving too much official formality.

- A Nepotism
- B Diplomacy

C Bureaucracy

D Red-tapism

Answer: D

Question 184

A person who enters without any invitation.

A Vandal

B Burglar

C Intruder

D Thief

Answer: C

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Question 185

Not suitable for eating

A Spicy

B Tasteless

C Uneatable

D Inedible

Answer: D

Question 186

A recurrent compulsive urge to steal.

A Kleptomania

B Pneumonia

C Insomnia

D Nymphomania

Answer: A

Question 187

Act of injuring another's reputation by any slanderous communication.

A Defamation

B Orchestration

C Aberration

D Misrepresentation

Answer: A

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Question 188

A story in which animals or objects speak and give wholesome moral lesson.

- A Legend
- B Fable
- C Parable
- D Allegory

Answer: B

Instructions

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

Question 189

- A Fasimmile
- B Facsimile
- C Facsimilee
- D Fasirnille

Answer: B

Question 190

- A Aquarim
- B Acquariam
- C Aquarium
- D Acquerium

Answer: C

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Instructions

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

The instinctive, natural way to express anger is to respond aggressively. Anger is a natural, adaptive response to threats; it inspires powerful, often aggressive, feelings and behaviours, which allow us to fight and to defend ourselves when we are attacked. On the other hand, we can't physically lash out at every person or object that irritates or annoys us; laws, social norms and common sense placelimits on how far our anger can take us. People use a variety of both conscious and unconscious processes to deal with their angry feelings. The three main approaches are' expressing, suppressing and calming. Expressing your angry feelings in an assertive not aggressive – manner is the healthiest way to express anger. Being assertive doesn't mean being pushy or demanding; it means being respectful of yourself and others. Anger can be suppressed and then converted or redirected . This happens when you hold in your anger, stop thinking about it and focus on something positive.

Question 191

What does the author mean by being assertive ?

- A Being calm
- B Being pushy
- C Being demanding
- D Being respectful

Answer: D

Question 192

How, according to the author, can one suppress anger ?

- A By redirecting anger.
- B By holding one's anger.
- C By thinking about one's anger.
- D By converting anger.

Answer: B

Question 193

How does a person naturally express anger ?

- A By adapting strong behaviour.
- B By inspiring powerful feelings.
- C By responding aggressively.
- D By defending oneself.

Answer: C

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Question 194

Which one of the following places limits on how far we can take our anger ?

- A Law
- B Behaviour
- C Feelings
- D Instinct

Answer: A

Question 195

According to the author, how should people deal with their anger ?

- A Expressing unconsciously
- B Express it assertively
- C Express it aggressively
- D Expressing consciously

Answer: B

Instructions

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

The crowd surged forward through the narrow streets of Paris. There was a clatter of shutters being closed hastily by trembling hands- the citizens of Paris knew that once the fury of the people was excited there was no telling what they might do. They came to an old house which had a workshop on the ground floor. A head popped out of the door to see what it was all about "Get him! Get Thimonier! Smash his devilish machines!" yelled the crowd.

They found the workshop without its owner. M. Thimonier had escaped by the back door. Now the fury of the demonstrators turned against the machines that were standing in the shop, ready to be delivered to buyers. They were systematically broken up and destroyed – dozens of them. Only when the last wheel and spindle had been trampled under foot did the infuriated crowd recover their senses.

"That is the end of M'Sieur Thimonier and his sewing machines," they said to one another and went home satisfied. Perhaps now they would find work, for they were all unemployed tailors and seamstresses who believed that their livelihood was threatened by that new invention.

Question 196

The people thought that

- A they would be deprived of their livelihood.
- B their lives were in danger.
- C Thimonier was mad.
- D t he sewing machine was dangerous.

Answer: A

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Question 197

Shutters were being closed because the shopkeepers

- A wanted to support the crowd.
- B wanted to attack the crowd.
- C wanted to protect Thimonier.
- D feared their shops would be destroyed.

Answer: D

Question 198

The passage throws light on

- A how dangerous an invention can be.

- B why inventions should be avoided.
- C how a well-meant invention can be misunderstood.
- D what mischief an inventor can do to ordinary people.

Answer: C

Question 199

The crowd was protesting against

- A Thimonier for keeping the invention a secret.
- B the closings of workshops.
- C the misdoings of Thimonier.
- D the newly invented sewing machine.

Answer: D

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Question 200

The aim of the crowd was to

- A destroy the sewing machines
- B kill Thimonier
- C drive Thimonier away
- D humiliate Thimonier

Answer: B

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