



2016 SSC CGL 31 Aug Morning Shift

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General Awareness

Instructions

For the following questions answer them individually

Question 1

Money market is a market for _____

- A Short term fund
- B Long term fund
- C Negotiable instruments
- D Sale of shares

Answer: A

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Question 2

India shares longest international boundary with which country?

- A Bangladesh
- B China
- C Nepal
- D Bhutan

Answer: A

Question 3

The Residuary powers of legislation under Indian Constitution rests with

- A President
- B Prime Minister
- C Parliament
- D States

Answer: C

Question 4

Appointments for all India Services are made by

- A UPSC
- B President
- C Prime Minister
- D Parliament

Answer: B

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Question 5

The people of the Indus valley civilisation worshipped _____.

- A Vishnu
- B Pashupati
- C Indra
- D Brahma

Answer: B

Question 6

The Upanishads are the _____.

- A Great Epics
- B Story Books
- C Source of Hindu Philosophy
- D Law Books

Answer: C

Question 7

Tsangpo is the other name in Tibet for _____.

- A Kosi
- B Gandak
- C Brahmaputra
- D Ganga

Answer: C

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Question 8

The largest herbarium of India is located at

- A Kolkata
- B Lucknow
- C Mumbai
- D Coimbatore

Answer: A

Question 9

Temperature of distant luminous bodies can be determined by

- A Mercury thermometers
- B Gas thermometers
- C Pyrometers
- D Colour thermometers

Answer: C

Question 10

In IT terminology failure in the kernel is called as

- A crash
- B crash dump
- C dump
- D Kernel error

Answer: A

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Question 11

Which of the following institutions was not founded by Mahatama Gandhi?

- A Sabarmati Ashram
- B Sevagram Ashram
- C Vishwa Bharti
- D Phoenix Ashram

Answer: C

Question 12

Which State has become India's first carbon free State?

- A Himachal Pradesh
- B Madhya Pradesh
- C Uttar Pradesh
- D Maharashtra

Answer: A

Question 13

Energy travels from Sun to Earth through

- A conduction
- B convection
- C radiation
- D modulation

Answer: C

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Question 14

C.K. Naidu Cup is associated with which sporting event?

- A Tennis
- B Cricket
- C Hockey
- D Golf

Answer: B

Question 15

Pump priming should be resorted to at a time of?

- A Inflation
- B Deflation
- C Stagflation
- D Reflation

Answer: B

Question 16

Which is the highest award for gallantry during peacetime?

- A Vir Chakra
- B Param Vir Chakra
- C Ashok Chakra
- D Mahavir Chakra

Answer: C

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Question 17

At Barren Island, the only active volcano in India is situated in

- A Andaman Islands
- B Nicobar Islands
- C Lakshadweep
- D Minicoy

Answer: B

Question 18

The transfer of minerals from top soil to subsoil through soil-water is called?

- A Percolation
- B Conduction
- C Leaching
- D Transpiration

Answer: C

Question 19

Heat is transmitted from higher temperature to lower temperature through the actual motion of the molecules in

- A Conduction
- B Convection
- C Radiation
- D Both conduction and convection

Answer: B

General Science Notes for SSC CGL

Question 20

Polio is caused by

- A Bacteria
- B Virus
- C Fungus
- D Protozoa

Answer: B

Question 21

Which country is in the process of building the largest single Aperture Radio Telescope - FAST

- A Japan
- B China

C USA

D Russia

Answer: B

Question 22

The Kovvada Nuclear Park project is proposed to be setup in which State?

A Rajasthan

B Uttar Pradesh

C Andhra Pradesh

D Karnataka

Answer: C

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Question 23

Fixed Foreign Exchange Rate can be changed by

A RBI

B SEBI

C Ministry of Finance

D FIPB

Answer: A

Question 24

In bio fortification technique plant breeders use breeding to overcome

A Loss due to insect pests

B Decrease in food production

C Deficiencies of micronutrients and vitamins

D Loss due to plant diseases

Answer: C

Question 25

Which Institution has the final authority to interpret the Constitution of India?

A Parliament

B Supreme Court of India

C President

D Attorney General of India

Answer: B

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Mathematics

Instructions

For the following questions answer them individually

Question 26

A and B together can do a piece of work in 9 days. If A does thrice the work of B in a given time, the time A alone will take to finish the work is

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

Answer: D

Explanation:

A does thrice the work of B in a given time.

Let B's efficiency = x units/day

=> A's efficiency = $3x$ units/day

Thus, (A+B)'s 1 day's work = $x + 3x = 4x$ units/day

=> Total work done by them in 9 days = $4x \times 9 = 36x$ units

∴ Time taken by A alone to finish the work = $\frac{36x}{3x} = 12$ days

=> Ans - (D)

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Question 27

The diameters of two cylinders are in the ratio 3:2 and their volumes are equal. The ratio of their heights is

- A 2:3
- B 3:2
- C 9:4
- D 4:9

Answer: D

Explanation:

Ratio of diameter = Ratio of radius

Let the radius of the two cylinders be 3 cm and 2 cm respectively.

Let the heights be h_1 and h_2 respectively.

Volume of cylinder = $\pi r^2 h$

According to ques,

$$\Rightarrow \pi(3)^2 h_1 = \pi(2)^2 h_2$$

$$\Rightarrow 9h_1 = 4h_2$$

$$\Rightarrow \frac{h_1}{h_2} = \frac{4}{9}$$

\Rightarrow Ans - (D)

Question 28

A trader sold a cycle at a loss of 10%. If the selling price had been increased by Rs. 200, there would have been a gain of 6%. The cost price of the cycle is

A Rs.1200

B Rs.1205

C Rs.1250

D Rs.1275

Answer: C

Explanation:

Let cost price of article = Rs. $100x$

Loss % = 10%

$$\Rightarrow \text{Selling price} = 100x - \frac{10}{100} \times 100x = \text{Rs. } 90x$$

If selling price is increased by Rs. 200, \Rightarrow New selling price = Rs. $(90x + 200)$

$$\Rightarrow \text{Profit \%} = \frac{(90x+200)-100x}{100x} \times 100 = 6$$

$$\Rightarrow 200 - 10x = 6x$$

$$\Rightarrow 6x + 10x = 16x = 200$$

$$\Rightarrow x = \frac{200}{16} = 12.5$$

$$\therefore \text{Cost price} = 100 \times 12.5 = \text{Rs. } 1250$$

\Rightarrow Ans - (C)

Question 29

In a city, 40% of the people are illiterate and 60% are poor. Among the rich, 10% are illiterate. The percentage of the illiterate poor population is

A 36

B 60

C 40

D 50

Answer: B

Explanation:

Let total population of city = 100

$$\text{Total number of illiterates} = \frac{40}{100} \times 100 = 40$$

$$\text{Number of poor people} = \frac{60}{100} \times 100 = 60$$

$$\Rightarrow \text{Number of rich people} = 100 - 60 = 40$$

Now, number of rich who are illiterate = $\frac{10}{100} \times 40 = 4$

=> Remaining illiterates are poor = $40 - 4 = 36$

∴ Percentage of the illiterate poor population = $\frac{36}{60} \times 100$

= $36 \times \frac{5}{3} = 60\%$

=> Ans - (B)

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Question 30

In what time will a 100 metre long train running with a speed of 50 km/hr cross a pillar

A 7.0 sec

B 72 sec

C 7.2 sec

D 70 sec

Answer: C

Explanation:

Speed of train = 50 km/hr

$$= (50 \times \frac{5}{18}) \text{ m/s} = \frac{125}{9} \text{ m/s}$$

Length of train = 100 m

Using, time = distance/speed

$$\Rightarrow \text{Time taken} = 100 \div \frac{125}{9}$$

$$= 100 \times \frac{9}{125}$$

$$= \frac{36}{5} = 7.2 \text{ sec}$$

=> Ans - (C)

Question 31

If $p^{2-2p+1} = \frac{1}{4}$, then the value of $p + \frac{1}{p}$ will be

A 8

B 10

C 12

D None of these

Answer: B

Explanation:

$$\text{Given : } p^{2-2p+1} = \frac{1}{4}$$

$$\Rightarrow 8p = p^2 - 2p + 1$$

$$\Rightarrow p^2 + 1 = 8p + 2p$$

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

$$\Rightarrow \frac{p^2+1}{p} = 10$$

$$\Rightarrow p + \frac{1}{p} = 10$$

\Rightarrow Ans - (B)

Question 32

If $l + m + n = 9$ and $l^2 + m^2 + n^2 = 31$, then the value of $lm + mn + nl$ will be

- A 22
- B 50
- C 25
- D -25

Answer: C

Explanation:

Given : $l + m + n = 9$

Squaring both sides, we get :

$$\Rightarrow (l + m + n)^2 = (9)^2$$

$$\Rightarrow (l^2 + m^2 + n^2) + 2(lm + mn + nl) = 81$$

$$\Rightarrow 31 + 2(lm + mn + nl) = 81$$

$$\Rightarrow 2(lm + mn + nl) = 81 - 31 = 50$$

$$\Rightarrow lm + mn + nl = \frac{50}{2} = 25$$

\Rightarrow Ans - (C)

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Question 33

The centroid of a triangle is the point where

- A the medians meet
- B the altitudes meet
- C the right bisectors of the sides of the triangle meet
- D the bisectors of the angles of the triangle meet

Answer: A

Explanation:

The centroid of a triangle is the point where the medians meet.

\Rightarrow Ans - (A)

Question 34

In a triangle PQR, the side QR is extended to S. $\angle QPR = 72^\circ$ and $\angle PRS = 110^\circ$, then the value of $\angle PQR$ is:

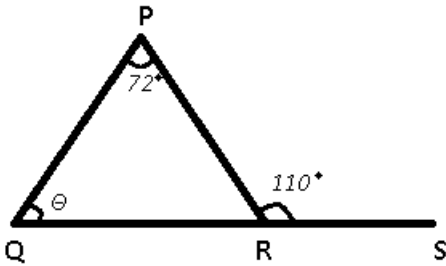
- A 38°
- B 32°

C 25°

D 29°

Answer: A

Explanation:



Given : $\angle QPR = 72^\circ$ and $\angle PRS = 110^\circ$

To find : $\angle PQR = \theta = ?$

Solution : Using exterior angle property

$$\Rightarrow \angle P + \angle Q = \angle PRS$$

$$\Rightarrow 72^\circ + \theta = 110^\circ$$

$$\Rightarrow \theta = 110 - 72 = 38^\circ$$

\Rightarrow Ans - (A)

Question 35

In a trapezium ABCD, $AB \parallel CD$, $AB < CD$, $CD = 6$ cm and distance between the parallel sides is 4 cm. If the area of ABCD is 16 cm², then AB is

A 1 cm

B 2 cm

C 3 cm

D 8 cm

Answer: B

Explanation:

Let $AB = x$ cm and $CD = 6$ cm

Height of trapezium = $h = 4$ cm

Area of trapezium = $\frac{1}{2} \times (\text{sum of parallel sides}) \times \text{height}$

$$\Rightarrow \frac{1}{2} \times (x + 6) \times 4 = 16$$

$$\Rightarrow x + 6 = \frac{16}{2} = 8$$

$$\Rightarrow x = 8 - 6 = 2 \text{ cm}$$

\Rightarrow Ans - (B)

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Question 36

If $\tan\theta + \cot\theta = 5$, then the value of $\tan^2\theta + \cot^2\theta$ is

- A 22
- B 25
- C 23
- D 27

Answer: C

Explanation:

Given : $\tan\theta + \cot\theta = 5$

Squaring both sides

$$\Rightarrow (\tan\theta + \cot\theta)^2 = (5)^2$$

$$\Rightarrow \tan^2\theta + \cot^2\theta + 2(\tan\theta)(\cot\theta) = 25$$

$$\Rightarrow \tan^2\theta + \cot^2\theta = 25 - 2 = 23$$

\Rightarrow Ans - (C)

Question 37

When a number is divided by 56, the remainder will be 29. If the same number is divided by 8, then the remainder will be

- A 6
- B 7
- C 5
- D 3

Answer: C

Explanation:

When the number is divided by 56, remainder is 29

$$\Rightarrow \text{Let the number} = 56 + 29 = 85$$

Now, if 85 is divided by 8, $\Rightarrow 85 = 8 \times 10 + 5$

Thus, remainder = 5

\Rightarrow Ans - (C)

Question 38

If a shop keeper marks his goods for a certain amount so as to get 25% gain after allowing a discount of 20%. If the cost price is Rs. 100, then his marked price is

- A Rs.156.25
- B Rs.146.25
- C Rs.166.25
- D Rs.150.25

Answer: A

Explanation:

Let marked price = Rs. $100x$

Discount % = 20%

$$\Rightarrow \text{Selling price} = 100x \times \frac{(100-20)}{100} = \text{Rs. } 80x$$

Profit % = 25%

$$\Rightarrow \text{Cost price} = 80x \times \frac{100}{(100+25)} = \text{Rs. } 64$$

According to ques, $\Rightarrow 64x = 100$

$$\Rightarrow x = \frac{100}{64} = 1.5625$$

$$\therefore \text{Marked price} = 100 \times 1.5625 = \text{Rs. } 156.25$$

\Rightarrow Ans - (A)

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Question 39

The average of marks of 17 students in an examination was calculated as 71. But it was later found that the mark of one student had been wrongly entered as 65 instead of 56 and another as 24 instead of 50. The correct average is

- A 70
- B 71
- C 72
- D 73

Answer: C

Explanation:

Average marks of 17 students = 71

$$\Rightarrow \text{Total marks of 17 students} = 71 \times 17 = 1207$$

Now, 65 is replaced with 56 and 24 with 50

$$\Rightarrow \text{Correct total marks} = 1207 + (56 - 65) + (50 - 24)$$

$$= 1207 - 9 + 26 = 1224$$

$$\therefore \text{Correct average} = \frac{1224}{17} = 72$$

\Rightarrow Ans - (C)

Question 40

The simple interest on a sum for 5 years is two-fifth of the sum. The rate of interest per annum is

- A 10
- B 8
- C 6
- D 4

Answer: B

Explanation:

Let sum of money = Rs. $5x$

$$\Rightarrow \text{Simple interest} = \text{Rs. } \frac{2}{5} \times 5x = \text{Rs. } 2x$$

Time period = 5 years

Let rate of interest = $r\%$

$$\Rightarrow \text{S.I.} = \frac{P \times r \times t}{100}$$

$$\Rightarrow \frac{5x \times r \times 5}{100} = 2x$$

$$\Rightarrow 25r = 100 \times 2 = 200$$

$$\Rightarrow r = \frac{200}{25} = 8\%$$

\Rightarrow Ans - (B)

Question 41

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

A 0

B 1

C 2

D -1

Answer: A

Explanation:

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

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

Cubing both sides, we get :

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

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

Substituting value of $(x + \frac{1}{x})$ from equation (i)

$$\Rightarrow x^3 + \frac{1}{x^3} + 3\sqrt{3} = 3\sqrt{3}$$

$$\Rightarrow x^3 + \frac{1}{x^3} = 0$$

\Rightarrow Ans - (A)

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Question 42

If $a - b = 3$ and $a^2 + b^2 = 25$, then the value of ab is

A 16

B 8

C 10

D 15

Answer: B

Explanation:

Given : $a^2 + b^2 = 25$ -----(i)

Also, $a - b = 3$

Squaring both sides, we get :

$$\Rightarrow (a - b)^2 = (3)^2$$

$$\Rightarrow a^2 + b^2 - 2ab = 9$$

$$\Rightarrow 25 - 2ab = 9 \quad [\text{Using (i)}]$$

$$\Rightarrow 2ab = 25 - 9 = 16$$

$$\Rightarrow ab = \frac{16}{2} = 8$$

\Rightarrow Ans - (B)

Question 43

In $\triangle ABC$, $\angle B = 70^\circ$ and $\angle C = 60^\circ$. The internal bisectors of the two smallest angles of $\triangle ABC$ meet at O. The angle so formed at O is

A 125°

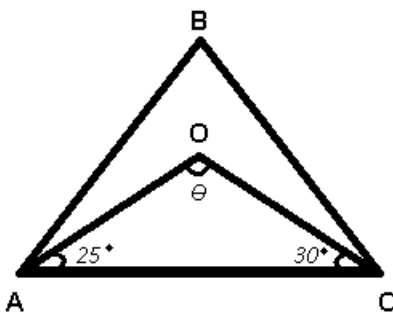
B 120°

C 115°

D 110°

Answer: A

Explanation:



Given : In $\triangle ABC$, $\angle B = 70^\circ$ and $\angle C = 60^\circ$

$$\Rightarrow \angle A = 180^\circ - 70^\circ - 60^\circ = 50^\circ$$

Thus, the two smallest angles are $\angle A$ and $\angle C$

To find : $\angle AOC = \theta = ?$

Solution : AO and OC are angle bisectors.

$$\Rightarrow \angle OAC = \frac{\angle A}{2} = \frac{50}{2} = 25^\circ$$

Similarly, $\angle OCA = 30^\circ$

In $\triangle AOC$

$$\Rightarrow \angle OAC + \angle OCA + \angle AOC = 180^\circ$$

$$\Rightarrow 25^\circ + 30^\circ + \theta = 180^\circ$$

$$\Rightarrow \theta = 180 - 55 = 125^\circ$$

\Rightarrow Ans - (A)

Question 44

If θ be positive acute angle and $5\cos\theta + 12\sin\theta = 13$, then the value of $\cos\theta$ is

A $12/13$

- B 5/13
C 5/12
D 1/5

Answer: B

Explanation:

$$\text{Expression : } 5\cos\theta + 12\sin\theta = 13$$

$$\Rightarrow 12\sin\theta = 13 - 5\cos\theta$$

Squaring both sides,

$$\Rightarrow (12\sin\theta)^2 = (13 - 5\cos\theta)^2$$

$$\Rightarrow 144\sin^2\theta = 169 + 25\cos^2\theta - 130\cos\theta$$

$$\Rightarrow 144(1 - \cos^2\theta) = 169 + 25\cos^2\theta - 130\cos\theta$$

$$\Rightarrow 144 - 144\cos^2\theta = 169 + 25\cos^2\theta - 130\cos\theta$$

$$\Rightarrow 169\cos^2\theta - 130\cos\theta + 25 = 0$$

$$\Rightarrow (13\cos\theta - 5)^2 = 0$$

$$\Rightarrow 13\cos\theta = 5$$

$$\Rightarrow \cos\theta = \frac{5}{13}$$

$$\Rightarrow \text{Ans - (B)}$$

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Question 45

A cylindrical container of 32 cm height and 18 cm radius is filled with sand. Now all this sand is used to form a conical heap of sand. If the height of the conical heap is 24 cm, what is the radius of its base?

- A 12 cm
B 24 cm
C 36 cm
D 48 cm

Answer: C

Explanation:

Let radius of base of cone = r cm and height = $h = 24$ cm

Radius of cylinder = $R = 18$ cm and height = $H = 32$ cm

Volume of cylinder = Volume of cone

$$\Rightarrow \pi R^2 H = \frac{1}{3} \pi r^2 h$$

$$\Rightarrow (18)^2 \times 32 = \frac{1}{3} \times (r)^2 \times 24$$

$$\Rightarrow 324 \times 32 = 8(r)^2$$

$$\Rightarrow r^2 = 324 \times \frac{32}{8}$$

$$\Rightarrow r = \sqrt{324 \times 4}$$

$$\Rightarrow r = 18 \times 2 = 36 \text{ cm}$$

$$\Rightarrow \text{Ans - (C)}$$

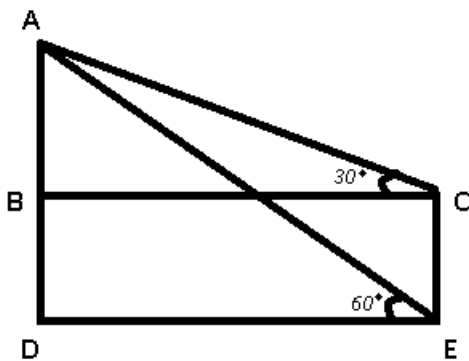
Question 46

The angle of elevation of the top of a pillar from the foot and the top of a building 20 m high, are 60° and 30° respectively. The height of the pillar is

- A 10 m
- B $10\sqrt{3}$ m
- C 60 m
- D 30 m

Answer: D

Explanation:



CE is the building = 20 m and BD = CE = 20 m

AD is the pillar = ?

Let AB = x m and DE = BC = y m

Also, $\angle AED = 60^\circ$ and $\angle ACB = 30^\circ$

$$\text{In } \triangle ADE, \Rightarrow \tan(\angle AED) = \frac{AD}{DE}$$

$$\Rightarrow \tan(60) = \sqrt{3} = \frac{x+20}{y}$$

$$\Rightarrow x + 20 = y\sqrt{3} \text{-----(i)}$$

$$\text{In } \triangle ABC, \Rightarrow \tan(\angle ACB) = \frac{AB}{BC}$$

$$\Rightarrow \tan(30) = \frac{1}{\sqrt{3}} = \frac{x}{y}$$

$$\Rightarrow y = x\sqrt{3}$$

Substituting it in equation (i), we get :

$$\Rightarrow x + 20 = (x\sqrt{3}) \times \sqrt{3}$$

$$\Rightarrow x + 20 = 3x$$

$$\Rightarrow 3x - x = 2x = 20$$

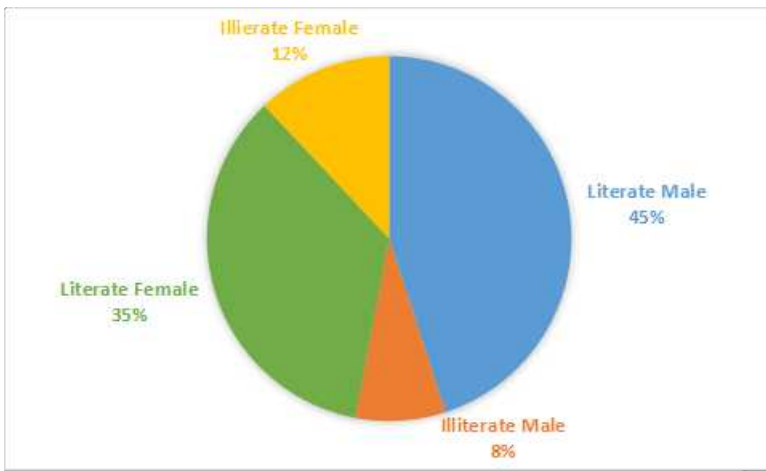
$$\Rightarrow x = \frac{20}{2} = 10 \text{ m}$$

$$\therefore AD = AB + BD = 10 + 20 = 30 \text{ m}$$

\Rightarrow Ans - (D)

Instructions

The pie-chart shows the percentage of literate and illiterate male and female in a state. Study the diagram and answer the following questions.



Question 47

If the total number is 35000, then the difference between the numbers of literate male and literate female is

- A 3500
- B 3700
- C 400
- D 4500

Answer: A

Explanation:

Total number of people in the state = 35000

Difference of % corresponding to literate male and literate female = 45-35 = 10%

$$\therefore \text{Difference between the numbers of literate male and literate female} = \frac{10}{100} \times 35000$$

$$= 3500$$

=> Ans - (A)

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Question 48

The difference of central angles corresponding to illiterate male and illiterate female is

- A 12.2°
- B 13.4°
- C 11.2°
- D 14.4°

Answer: D

Explanation:

Difference of % corresponding to illiterate male and illiterate female = 12-8 = 4%

$$\Rightarrow \text{Corresponding central angle} = \frac{4}{100} \times 360^\circ$$

$$= \frac{72}{5} = 14.4^\circ$$

=> Ans - (D)

Question 49

If the difference between the two categories of people are represented by 36° in the diagram then these categories are

- A literate male and literate female
- B literate male and illiterate male
- C illiterate male and literate female
- D illiterate male and illiterate female

Answer: A

Explanation:

Central angle of two categories = 36°

$$\begin{aligned} \text{Corresponding \%} &= \frac{36}{360} \times 100 \\ &= \frac{1}{10} \times 100 = 10\% \end{aligned}$$

Now, clearly difference of literate male and literate female = $45 - 35 = 10\%$

=> Ans - (A)

Question 50

If two categories together have a central angle of 169.20° , then these categories are

- A literate female and illiterate female
- B literate male and illiterate female
- C illiterate male and illiterate female
- D illiterate male and literate female

Answer: A

Explanation:

Central angle of two categories = 169.20°

$$\begin{aligned} \text{Corresponding \%} &= \frac{169.20}{360} \times 100 \\ &= 0.47 \times 100 = 47\% \end{aligned}$$

Now, clearly sum of literate female and illiterate female = $35 + 12 = 47\%$

=> Ans - (A)

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Reasoning

Instructions

For the following questions answer them individually

Question 51

Select the related word/letters/numbers from the given alternatives:

CURE : DISEASE :: HEAL : ?

- A Illness
- B Injury

C Recover

D Sick

Answer: B

Explanation:

A cure relieve the symptoms of a disease, similarly an injury is relieved by healing.

=> Ans - (B)

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Question 52

Select the related word/letters/numbers from the given alternatives:

DBCE : QOPR :: JLKI : ?

A YWXU

B WYXV

C WXYV

D WYVX

Answer: B

Explanation:

Expression = DBCE : QOPR :: JLKI : ?

The pattern followed is :

D	B	C	E
(+13)	(+13)	(+13)	(+13)
Q	O	P	R

Similarly, for JLKI :

J	L	K	I
(+13)	(+13)	(+13)	(+13)
W	Y	X	V

=> Ans - (B)

Question 53

Select the related word/letters/numbers from the given alternatives:

6 : 42 :: 12 : ?

A 48

B 72

C 60

D 84

Answer: D

Explanation:

Expression = 6 : 42 :: 12 : ?

The pattern followed is = $n : 7n$

Eg = $6 : 6 \times 7 = 6 : 42$

Similarly, $12 \times 7 = 84$

=> Ans - (D)

Question 54

For the following questions

Find the odd word/letters/number pair from the given alternatives.

- A High-Up
- B Past-Present
- C Often-Seldom
- D Fresh-Stale

Answer: A

Explanation:

Past-Present, Often-Seldom and Fresh-Stale are opposite pairs, but High-Up are synonyms.

=> Ans - (A)

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Question 55

For the following questions

Find the odd word/letters/number from the given alternatives.

- A AOU
- B EOI
- C UIE
- D ALO

Answer: D

Explanation:

In the first three terms, the three letters used are all vowels, but in the last term, a consonant is used.

=> Ans - (D)

Question 56

For the following questions

Find the odd word/letters/number from the given alternatives.

- A 13
- B 17
- C 29
- D 87

Answer: D

Explanation:

13, 17 and 29 are prime numbers, and 87 is a composite number.

=> Ans - (D)

Question 57

Arrange the following words as per order in the dictionary and choose the one that comes first:

1. Temple
2. Tenant
3. Terminate
4. Temperature

- A Temple
- B Tenant
- C Terminate
- D Temperature

Answer: D

Explanation:

As per the dictionary,

= Temperature -> Temple -> Tenant -> Terminate

Thus, 'Temperature' comes first

=> Ans - (D)

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Question 58

A series is given, with one term missing. Choose the correct alternative from the given ones that will complete the series.
NOM, QRP, TUS, ?

- A WAX
- B HUT
- C WXV
- D HTU

Answer: C

Explanation:

Expression : NOM, QRP, TUS, ?

The pattern followed is that alphabets from English alphabetical series are swapped.

Eg : MNO \equiv NOM

and PQR \equiv QRP

Thus, the next term after STU is = VWX \equiv WXV

=> Ans - (C)

Question 59

A series is given, with one term missing. Choose the correct alternative from the given ones that will complete the series.
1,3,7,13,21,?

- A 27
- B 29

C 31

D 33

Answer: C

Explanation:

Consecutive even numbers are added.

$$1 + 2 = 3$$

$$3 + 4 = 7$$

$$7 + 6 = 13$$

$$13 + 8 = 21$$

$$21 + 10 = 31$$

=> Ans - (C)

Question 60

If it is Saturday on 27th September, what day will it be on 27th October of the same year?

A Thursday

B Sunday

C Friday

D Monday

Answer: D

Explanation:

According to the question, 27th September is Saturday

Number of days left in September = $30 - 27 = 3$

Similarly, odd days from 27th September till 27th October = $(3 + 27) \% 7$

$$= 3 + 6 = 9$$

Now, dividing 9 by 7, remainder = 2

Thus, day on 27th October = Saturday (+2) = Monday

=> Ans - (D)

General Science Notes for SSC CGL

Question 61

The ratio of the ages of man and his wife is 4:3. After 4 years, the ration will be 9:7. If at the time of marriage, the ratio was 5:3, how many years ago were they married?

A 12

B 24

C 5

D 8

Answer: A

Explanation:

Let the present age of man = $4x$ years and wife = $3x$ years

According to ques,

$$\Rightarrow \frac{4x+4}{3x+4} = \frac{9}{7}$$

$$\Rightarrow 28x + 28 = 27x + 36$$

$$\Rightarrow 28x - 27x = 36 - 28$$

$$\Rightarrow x = 8$$

Thus, man's age = $4 \times 8 = 32$ years and his wife's age = 24 years

Let they were married x years ago, then ratio at the time of marriage = 5 : 3

$$\Rightarrow \frac{32-x}{24-x} = \frac{5}{3}$$

$$\Rightarrow 96 - 3x = 120 - 5x$$

$$\Rightarrow 5x - 3x = 120 - 96$$

$$\Rightarrow 2x = 24$$

$$\Rightarrow x = \frac{24}{2} = 12 \text{ years}$$

\Rightarrow Ans - (A)

Question 62

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

ALTERNATIVES

- A ALTER
- B NATIVE
- C TEN
- D NATIONAL

Answer: D

Explanation:

The word ALTERNATIVES does not contain any 'O', and thus the word 'National' cannot be formed.

\Rightarrow Ans - (D)

Question 63

If code P is denoted by 7, X by 9, M by 5, Z by 8, L by 2, T by 1, then ZLTPXM will be

- A 812851
- B 821591
- C 812715
- D 821795

Answer: D

Explanation:

If code P is denoted by 7, X by 9, M by 5, Z by 8, L by 2, T by 1

Expression : ZLTPXM

$$\equiv 821795$$

\Rightarrow Ans - (D)

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Question 64

If $24 \times 2 = 84$, and $32 \times 3 = 69$, then $13 \times 3 = ?$

- A 38
- B 93
- C 16
- D 10

Answer: B

Explanation:

The numbers are multiplied and the digits in the result are interchanged.

Eg : $24 \times 2 = 48 \equiv 84$

and $32 \times 3 = 96 \equiv 69$

Similarly, $13 \times 3 = 39 \equiv 93$

=> Ans - (B)

Question 65

If + means division, - means multiplication, '÷' means subtraction, x means addition, and < means less than, then which of the following is false

- A $(10 + 2) \div 7 < (10 \div 7) + 2$
- B $(10 - 7) \times 2 < (10 \times 2) - 7$
- C $(10 \times 7) - 2 < (10 - 2) \times 7$
- D $(10 \div 2) + 7 < (10 + 7) \times 2$

Answer: C

Explanation:

+ means division, - means multiplication, '÷' means subtraction, x means addition, and < means less than

(A): $(10 + 2) \div 7 < (10 \div 7) + 2$

$\equiv (10 \div 2) - 7 < (10 - 7) \div 2$

$\Rightarrow 5 - 7 < \frac{3}{2}$

$\Rightarrow -2 < 1.5$ [TRUE]

(B): $(10 - 7) \times 2 < (10 \times 2) - 7$

$\equiv (10 \times 7) + 2 < (10 + 2) \times 7$

$\Rightarrow 70 + 2 < 12 \times 7$

$\Rightarrow 72 < 84$ [TRUE]

(C): $(10 \times 7) - 2 < (10 - 2) \times 7$

$\equiv (10 + 7) \times 2 < (10 \times 2) + 7$

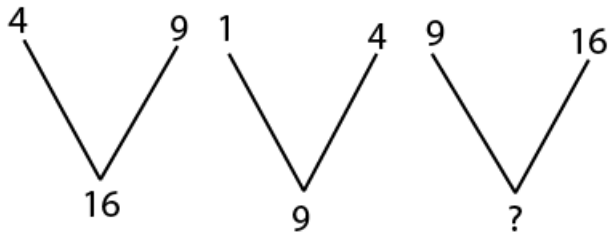
$\Rightarrow 17 \times 2 < 20 + 7$

$\Rightarrow 34 < 27$ [FALSE]

=> Ans - (C)

Question 66

Select the missing number from the given responses.



- A 1
- B 4
- C 9
- D 25

Answer: D

Explanation:

The numbers are of the form, $(n)^2$, $(n + 1)^2$, $(n + 2)^2$, where $(n + 2)^2$ is the number at the bottom.

Eg : $2^2 = 4$, $3^2 = 9$, $4^2 = 16$

and $1^2 = 1$, $2^2 = 4$, $3^2 = 9$

Similarly, $3^2 = 9$, $4^2 = 16$, $5^2 = 25$

=> Ans - (D)

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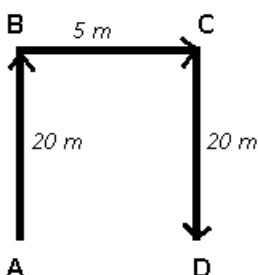
Question 67

Ram went 20 meters to the north then turned towards east and walked another 5 meters, then he turned towards right and covered 20 meters. How far is he from the starting point?

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

Answer: C

Explanation:



Let Ram starts from point A and travels 20 m north to reach B, then he turned towards east for 5 m and finally stops at point D.

Now, $AD = BC = 5$ m

Thus, Ram is 5 m to the east of starting point.

=> Ans - (C)

Question 68

One or two statements are given followed by two or more conclusions/assumptions, I, II, III, IV. 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/assumptions can definitely be drawn from the given statement: 1. All goats are tigers.

Statement: 2. All tigers are lions.

Conclusion:

I. All tigers are goats.

II. All lions are tigers.

III. No goat is a lion.

IV. No lion is a goat.

A Only Conclusion III & IV follow

B Only Conclusion I & II follow

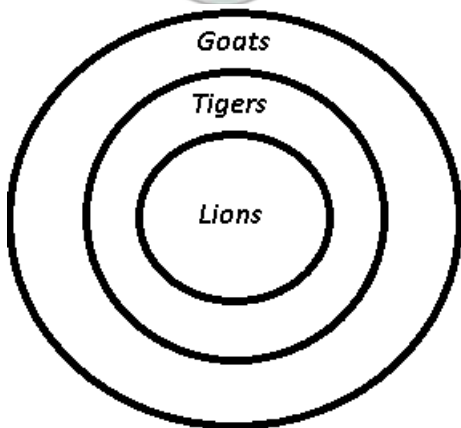
C None of the Conclusions follows

D All Conclusions follow

Answer: C

Explanation:

The venn diagram for above statements is :



Conclusion:

I. All tigers are goats = false

II. All lions are tigers = false

III. No goat is a lion = false

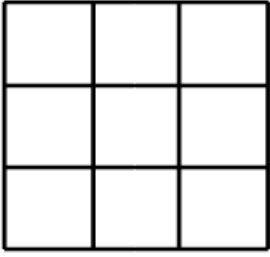
IV. No lion is a goat = false

Thus, none of the Conclusions follows

=> Ans - (C)

Question 69

In the question figure how many squares are there in all? Select from the given alternatives.



- A 12
- B 14
- C 10
- D 11

Answer: B

Explanation:

$$\text{Number of squares in a } 3 \times 3 \text{ grid} = 3^2 + 2^2 + 1^2$$

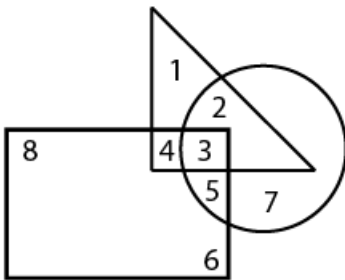
$$= 9 + 4 + 1 = 14$$

=> Ans - (B)

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Question 70

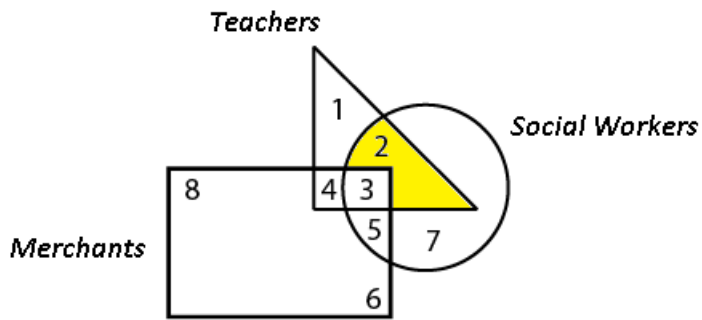
In the following figure, triangle represents teachers, square represents merchants and circle represents social workers. Which number space represents Teachers who are only social workers?



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

Answer: B

Explanation:

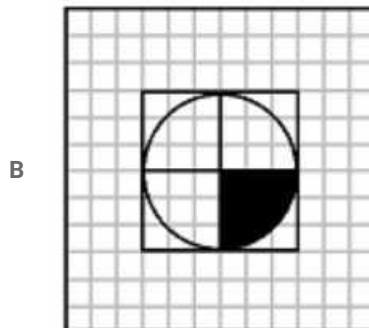
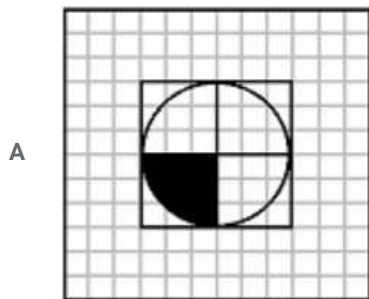
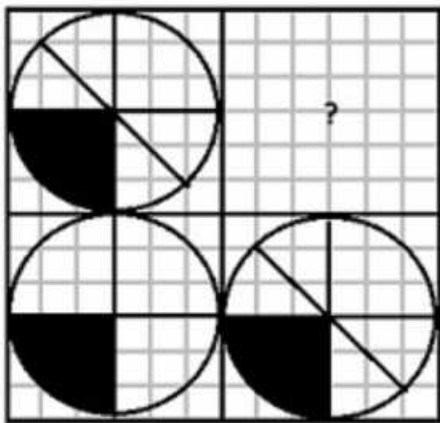


Teachers who are only social workers are represented by yellow region = 2

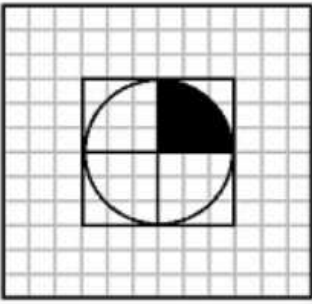
=> Ans - (B)

Question 71

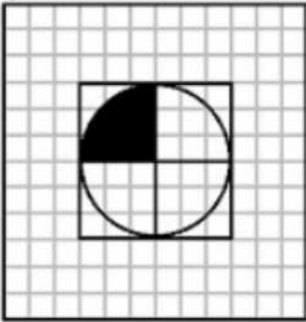
Which answer figure will complete the pattern in the question figure?



C



D



Answer: A

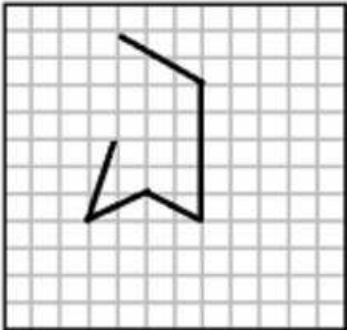
Explanation:

Clearly, the three circle are exactly alike, so the missing circle in the top right part of square will also have bottom left coloured black, which is given in the first option.

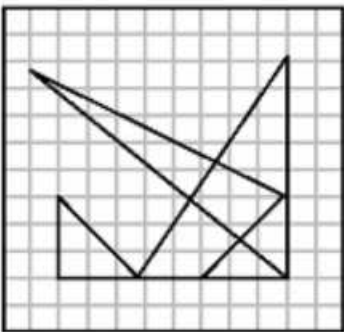
=> Ans - (A)

Question 72

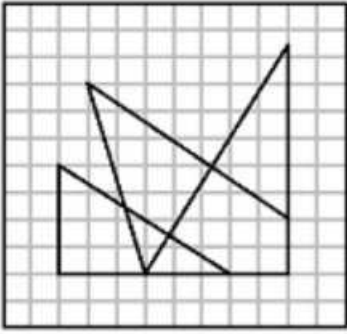
From the given answer figures, select the one in which the question figure is hidden/embedded.



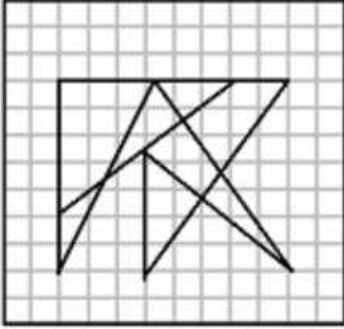
A



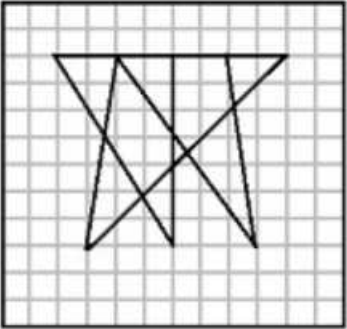
B



C



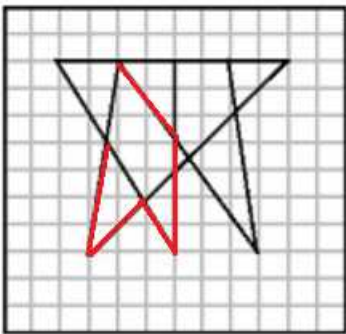
D



Answer: D

Explanation:

The question figure is embedded in the following figure :

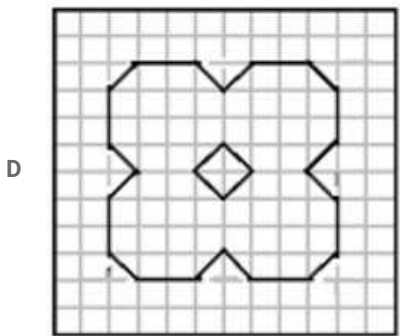
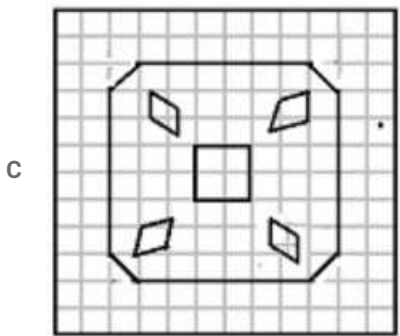
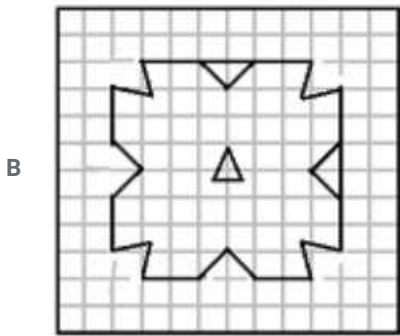
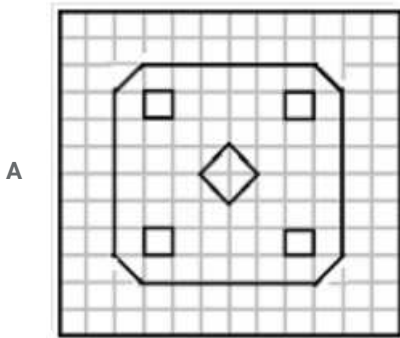
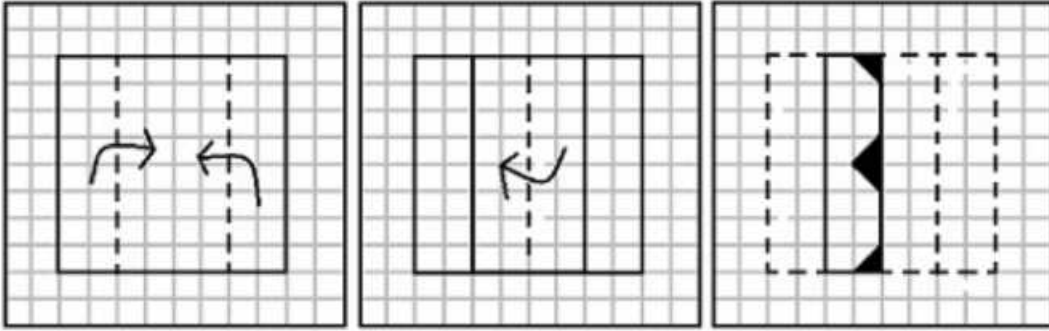


=> Ans - (D)

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Question 73

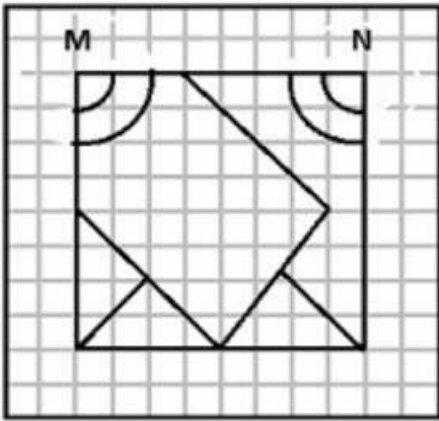
A piece of paper is folded and cut as shown below in the question figures. From the given answer figures, indicate how it will appear when opened.



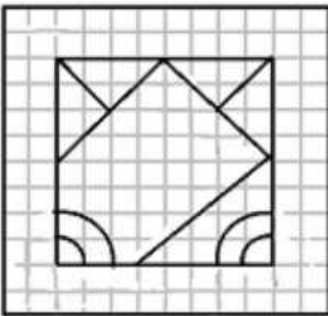
Answer: D

Question 74

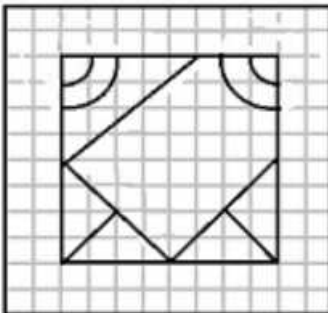
If a mirror is placed on the line MN, then which of the answer figures is the right image of the given figure?



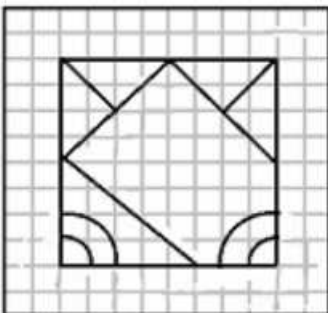
A



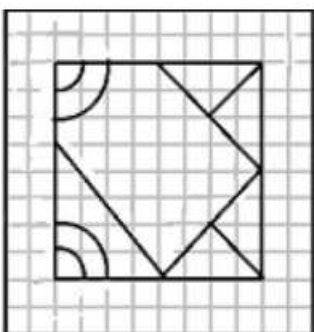
B



C



D



Answer: A

Explanation:

A horizontal mirror is placed, so the objects will turn upside down in the mirror image (e.g - an object at top right will appear at bottom right). So, the two circular arcs on each corner at the top will appear at the bottom, and thus the second and last options are eliminated.

Also, the top left arcs are enclosed by the pentagon, which will appear at bottom left, thus third option becomes invalid.

=> Ans - (A)

Question 75

In this question, the sets of numbers given in the alternatives are represented. 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., D can be represented by 02, 10, etc., and 'R' can be represented by 55, 67, etc. Similarly you have to identify the set for the word 'BEAR'

Matrix - I						Matrix - II					
	0	1	2	3	4		5	6	7	8	9
0	B	C	D	E	A	5	R	O	N	T	U
1	D	E	A	B	C	6	T	U	R	O	N
2	C	D	E	A	B	7	O	N	T	U	R
3	A	B	C	D	E	8	U	R	O	N	T
4	E	A	B	C	D	9	N	T	U	R	O

A 13,11,12,78

B 31,22,23,97

C 42,34,42,79

D 24,40,23,67

Answer: D

Explanation:

(A) : 13,11,12,78 = BEAU

(B) : 31,22,23,97 = BEAU

(C) : 42,34,42,79 = BEBR

(D) : 24,40,23,67 = BEAR

=> Ans - (D)

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Instructions

For the following questions answer them individually

Question 76

In the following question, out of the four alternatives, choose the word which best expresses the meaning of the given word and click the button corresponding to it.

CONSTRAIN

A STRESS

B CONTRADICT

C RESTRICT

D OBSTRUCT

Answer: C

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Question 77

In the following question, out of the four alternatives, choose the word which is opposite in meaning to the given word and click the button corresponding to it.

NONCONFORMIST

A CONVENTIONAL

B PRACTICAL

C FASHIONABLE

D NOMAD

Answer: A

Question 78

Four words are given, out of which only one word is spelt correctly. Choose the correctly spelt word and click the button corresponding to it.

A Erroneous

B Eronneous

C Erronous

D Eroneous

Answer: A

Question 79

In the following questions, one part of the sentence may have an error. Find out which part of the sentence has an error and click the button corresponding to it. If the sentence is free from error, click the "No error" option.

Although I have never seen the girl before, (A)/ I recognized her at once (B)/ from her photograph (c)/ no error (d)

A Although I have never seen the girl before

B I recognized her at once

C from her photograph

D no error

Answer: A

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Question 80

In the following questions, one part of the sentence may have an error. Find out which part of the sentence has an error and click the button corresponding to it. If the sentence is free from error, click the "No error" option.

There was a (a)/ comparison between (b)/ you and he (c)/ no error (d)

- A There was a
- B comparison between
- C you and he
- D no error

Answer: C

Question 81

In the following questions, one part of the sentence may have an error. Find out which part of the sentence has an error and click the button corresponding to it. If the sentence is free from error, click the "No error" option.

He flowed into a rage (a)/ at the very (b)/ sight of that man (c)/ No error (d)

- A He flowed into a rage
- B at the very
- C sight of that man
- D No error

Answer: A

Question 82

The sentences given with blanks are to be filled with an appropriate word(s). Four alternatives are suggested for each question. For each question, choose the correct alternative and click the button corresponding to it.

He is _____ connected.

- A respectively
- B respective
- C respectably
- D respectable

Answer: C

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Question 83

The sentences given with blanks are to be filled with an appropriate word(s). Four alternatives are suggested for each question. For each question, choose the correct alternative and click the button corresponding to it.

After retirement Surti lived _____ Australia.

- A in
- B at
- C over in
- D over at

Answer: A

Question 84

The sentences given with blanks are to be filled with an appropriate word(s). Four alternatives are suggested for each question. For each question, choose the correct alternative and click the button corresponding to it.

He _____ the low pay.

- A moan at
- B complain about
- C grumbled at
- D ran after

Answer: C

Question 85

In each of the questions, four alternatives are given for the Idiom/Phrase. Choose the alternative which best expresses the meaning of the Idiom/Phrase and click the button corresponding to it.

Pros and Cons

- A Professionals
- B Con artists
- C Professionals and con artists
- D Advantages and disadvantages

Answer: D

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Question 86

In each of the questions, four alternatives are given for the Idiom/Phrase. Choose the alternative which best expresses the meaning of the Idiom/Phrase and click the button corresponding to it.

Once in a blue moon

- A Very rarely
- B Common
- C Predictable
- D Ordinary

Answer: A

Question 87

In each of the questions, four alternatives are given for the Idiom/Phrase. Choose the alternative which best expresses the meaning of the Idiom/Phrase and click the button corresponding to it.

Fish out of water

- A Dehydrated
- B Comfortable position
- C An uncomfortable position

D Fish in an aquarium

Answer: C

Question 88

Out of the four alternatives, choose the one which can be substituted for the given words/sentences and click the button corresponding to it.

A remedy for all diseases

A Antiseptic

B Antibiotic

C Narcotics

D Panacea

Answer: D

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Question 89

Out of the four alternatives, choose the one which can be substituted for the given words/sentences and click the button corresponding to it.

Of the highest quality

A Productive

B Reactive

C Superlative

D Relative

Answer: C

Question 90

Out of the four alternatives, choose the one which can be substituted for the given words/sentences and click the button corresponding to it.

A place of shelter for ships

A Harbour

B Helipad

C Port

D Barrack

Answer: A

Instructions

A sentence/a part of the sentence is underlined. Four alternatives are given to the underlined part which will improve the sentence. Choose the correct alternative and click the button corresponding to it. In case no improvement is needed, click the button corresponding to "No improvement".

Question 91

His wife is as tall if not, taller than him.

- A as tall as, if not
- B as taller if not
- C not as tall but as
- D No improvement

Answer: A

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Question 92

He is a fast bowler of repute, but his yesterday's performance was not up to the mark.

- A performance for yesterday
- B yesterday performance
- C performances for yesterday
- D No improvement

Answer: D

Question 93

Owing to his respiratory problems the doctor has told him to refrain from smoking.

- A to not refrain from
- B to refrain to
- C to refrain not from
- D No improvement

Answer: D

Question 94

He is suffering from fever for a week.

- A was suffering
- B had suffering
- C has been suffering
- D No improvement

Answer: C

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Question 95

None knows how it was happened

- A was happen
- B has happened
- C happened
- D No improvement

Answer: C

Instructions

A passage is given with 5 questions following it. Read the passage carefully and choose the best answer to each question out of the four alternatives and click the button corresponding to it.

The snowstorm was getting worse. White flakes whirled around us as we fought our way against the wind. I had almost given up hope of sheltering, when we found an abandoned log cabin in front of us.

I squeezed through the door of the cabin and stepped cautiously inside with Jane close behind me. It was dark and musty-smelling, but at least it was sheltered and dry.

Glad to be out of the storm, we settled down on the dusty floor to wait for a break in the weather. "What's this?" asked Jane curiously. Her hand closing over something shiny. She held it up to the weak ray of light that pierced the gloom. A gold necklace glittered and shone. Its ruby pendant was a lustrous wine-red in the faint beam. Strangely, there was no dust on the necklace. It was almost as though it had dropped from the throat of its owner moments ago.

We gazed at each other speechlessly. What strange mystery had we accidentally stumbled upon?

Question 96

What had the writer given up hope?

- A To be able to withstand this snowstorm
- B To be able to fight her way against the wind
- C That the snowstorm would improve
- D To find shelter from the wind

Answer: D

Question 97

What did the two friends find while searching for shelter?

- A A haunted hut
- B A deserted hut
- C A very old hut
- D A very small hut

Answer: B

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Question 98

Why did the writer step cautiously inside the cabin?

- A Because she was feeling so cold that her legs had become numb

- B Because she could not see clearly in the dark
- C Because the wind made it difficult for her to enter quickly
- D Because the cabin was very dusty

Answer: B

Question 99

What did Jane find?

- A A necklace made of gold
- B A necklace made of red ruby
- C A red-coloured necklace
- D A golden necklace with a pendant on it

Answer: D

Question 100

What was the strange thing about the necklace?

- A It was made of marble
- B It was pink in colour
- C There was no dust in it
- D There was a picture on the pendant

Answer: C

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