



SSC CHSL 3 Feb 2017 Afternoon Shift

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General Awareness

Instructions

For the following questions answer them individually

Question 1

Manas Wildlife Sanctuary is in _____ .

- A Tamil Nadu
- B Assam
- C Bihar
- D Himachal Pradesh

Answer: B

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Question 2

Which Indian Cricketer has not received the Arjuna Award yet?

- A Virat Kohli
- B Rohit Sharma
- C MS Dhoni
- D R Ashwin

Answer: C

Question 3

Which drug is used as a Thyroid Hormone?

- A Metformin
- B Ketoconazole
- C Promethazine
- D Levothyroxine

Answer: D

Question 4

Which of the following constitute to form a gene?

- A Polynucleotides
- B Hydrocarbons
- C Lipoproteins
- D Lipids

Answer: A

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Question 5

Atomic number of which of the following elements is greater than that of Iron?

- A Manganese
- B Cobalt
- C Calcium
- D Chromium

Answer: B

Question 6

A series of instructions written by a programmer according to a given set of rules or conventions is called_____.

- A Syntax
- B a Byte
- C a Set
- D Macro

Answer: A

Question 7

Kuchipudi is a classical dance of _____.

- A Mizoram
- B Andhra Pradesh
- C Jammu & Kashmir
- D Maharashtra

Answer: B

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Question 8

If price of an article decreases from Rs P1 to Rs 240, when quantity demanded increases from 8000 units to 8400 units, and if point elasticity of demand is -1.25 find P1?

- A Rs 250
- B Rs 200
- C Rs 220
- D Rs 210

Answer: A

Question 9

An increase in price will _____.

- A increase consumer surplus
- B decrease consumer surplus
- C have no affect on consumer surplus
- D decrease producer surplus

Answer: B

Question 10

Which of the following is a greenhouse gas or a gas which can deplete the ozone layer?

- A BF₃
- B O₂
- C CHClF₂
- D Cl₂

Answer: C

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Question 11

Which of these is not an Indian Bank?

- A Axis Bank
- B HDFC Bank
- C ICICI Bank
- D HSBC Bank

Answer: D

Question 12

Which forests are also called monsoon forests?

- A Tropical Rain Forest
- B Tropical Deciduous Forests
- C Mangrove Forests
- D Thorny Bushes

Answer: B

Question 13

Patna is the Capital City of_____.

- A Andaman and Nicobar Islands
- B Andhra Pradesh
- C Bihar
- D West Bengal

Answer: C

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Question 14

Gandhi Irwin pact happened in which year?

- A 1905
- B 1931
- C 1947
- D 1942

Answer: B

Question 15

In 1739, who defeated the Mughal army at the Battle of Karnal?

- A Nader Shah
- B Genghis Khan
- C Hemu Vikramaditya
- D Bajirao I

Answer: A

Question 16

Who Invented LCD Projector?

- A Gene Dolgoff
- B Brendan Eich
- C Douglas Engelbart
- D Federico Faggin

Answer: A

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Question 17

A cannon ball is fired. The motion of this ball is an example of _____.

- A Straight line motion
- B projectile motion
- C Hyperbolic motion
- D horizontal motion

Answer: B

Question 18

What is the unit of the physical quantity, Magnetic flux?

- A farad
- B weber
- C tesla
- D henry

Answer: B

Question 19

The Panchayati Raj was first adopted by which of the following states?

- A Haryana
- B Rajasthan
- C Madhya Pradesh
- D Karnataka

Answer: B

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Question 20

According to our Constitution, India is _____.

- A A Religious State
- B A Secular State
- C A Capitalist State
- D A Plutocratic State

Answer: B

Question 21

Which of these sports generally has the shortest match duration?

- A Kabaddi
- B Hockey

C Football

D Cricket

Answer: A

Question 22

Who is the author of "The Inheritance of Loss"?

A Sunjeev Sahota

B Anne Enright

C Shobha De

D Kiran Desai

Answer: D

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Question 23

Vertebrates belongs to the phylum

A Arthropoda

B Annelida

C Cnidaria

D Chordata

Answer: D

Question 24

What is washing soda?

A Aluminium bicarbonate

B Sodium bicarbonate

C Aluminium sulphate

D Sodium carbonate

Answer: D

Question 25

_____ is the movement of chemical in the upper layers of soil into lower layers or into groundwater by being dissolved in water.

A infiltration

B salinisation

C eutrophication

D leaching

Answer: D

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Mathematics

Instructions

For the following questions answer them individually

Question 26

If $\sin 60^\circ + \cos 45^\circ = x$, then the value of x is

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

Answer: B

Explanation:

Expression : $\sin 60^\circ + \cos 45^\circ = x$

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

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

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

=> Ans - (B)

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Question 27

If $\cot(A/2) = x$, then the value of x is

- A $\sqrt{[(1 - \cos A)/(1 + \cos A)]}$
- B $\sqrt{[(1 + \cos A)/2]}$
- C $(1 + \cos A)/\sin A$
- D $\sqrt{[(1 - \cos A)/2]}$

Answer: C

Explanation:

Using double angle formula, we know that $\cos(2\theta) = \cos^2\theta - \sin^2\theta$

$$\Rightarrow \cos(2\theta) = (1 - \sin^2\theta) - \sin^2\theta$$

$$\Rightarrow \cos(2\theta) = 1 - 2\sin^2\theta$$

Replacing θ by $\frac{A}{2}$, we get :

$$\Rightarrow \cos A = 1 - 2\sin^2\left(\frac{A}{2}\right)$$

$$\Rightarrow 2\sin^2\left(\frac{A}{2}\right) = 1 - \cos A$$

$$\Rightarrow \sin^2\left(\frac{A}{2}\right) = \frac{(1 - \cos A)}{2}$$

$$\Rightarrow \sin\left(\frac{A}{2}\right) = \sqrt{\frac{(1 - \cos A)}{2}}$$

$$\text{Similarly, } \Rightarrow \cos\left(\frac{A}{2}\right) = \sqrt{\frac{(1 + \cos A)}{2}}$$

Now, to find : $\cot\left(\frac{A}{2}\right)$

$$= \cos\left(\frac{A}{2}\right) \div \sin\left(\frac{A}{2}\right)$$

$$= \sqrt{\frac{(1 + \cos A)}{2}} \div \sqrt{\frac{(1 - \cos A)}{2}}$$

$$= \sqrt{\frac{(1 + \cos A)}{2}} \times \sqrt{\frac{2}{(1 - \cos A)}}$$

$$= \sqrt{\frac{1 + \cos A}{1 - \cos A}}$$

$$= \sqrt{\frac{1 + \cos A}{1 - \cos A} \times \frac{1 + \cos A}{1 + \cos A}}$$

$$= \sqrt{\frac{(1 + \cos A)^2}{1 - \cos^2 A}} = \sqrt{\frac{(1 + \cos A)^2}{\sin^2 A}}$$

$$= \frac{1 + \cos A}{\sin A}$$

\Rightarrow Ans - (C)

Question 28

A shopkeeper, sold pistachios at the rate Rs 1140 a kg and bears a loss of 5%. Now if he decides to sell it at Rs 1260 per kg, what will be the result?

- A 10 percent gain
- B 5 percent gain
- C 5 percent loss
- D 10 percent loss

Answer: B

Explanation:

Let cost price of 1 kg of pistachios = Rs. x

If Selling price of 1 kg of pistachios = Rs. 1140

$$\Rightarrow \text{Loss \%} = \frac{x - 1140}{x} \times 100 = 5$$

$$\Rightarrow \frac{x - 1140}{x} = \frac{5}{100} = \frac{1}{20}$$

$$\Rightarrow 20x - 22800 = x$$

$$\Rightarrow 20x - x = 19x = 22800$$

$$\Rightarrow x = \frac{22800}{19} = 1200$$

When selling price = Rs. 1260

$$\Rightarrow \text{Profit \%} = \frac{1260 - 1200}{1200} \times 100$$

$$= \frac{60}{1200} = 5\%$$

\Rightarrow Ans - (A)

Question 29

Mandar works 3 times as fast as Samarth. If Samarth can complete a job alone in 28 days, then in how many days can they together finish the job?

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

Answer: D

Explanation:

Let total work to be done = 28 units

Samarth's efficiency = $\frac{28}{28} = 1$ unit/day

Mandar works 3 times as fast as Samarth

=> Mandar's efficiency = $3 \times 1 = 3$ units/day

Thus, (Samarth + Mandar)'s 1 day's work = $1 + 3 = 4$ units/day

∴ Time taken by them to finish the work together = $\frac{28}{4} = 7$ days

=> Ans - (D)

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Question 30

If the shopkeeper sells an item at Rs 2275 which is marked as Rs 3250, then what is the discount he is offering?

- A 30 percent
- B 20 percent
- C 25 percent
- D 37.5 percent

Answer: A

Explanation:

Marked price of item = Rs. 3250

Selling price = Rs. 2275

=> Discount % = $\frac{3250 - 2275}{3250} \times 100$

=> $\frac{975}{325} \times 10 = 3 \times 10 = 30\%$

=> Ans - (A)

Question 31

A thief is stopped by a policeman from a distance of 500 metres. When the policeman starts the chase, the thief also starts running. Assuming the speed of the thief as 10 km/h and that of police man as 18 km/h, how far the thief would have run, before he is overtaken?

- A 625 metres
- B 500 metres

- C 750 metres
- D 375 metres

Answer: A

Explanation:

Since the thief is escaping from the police man, thus they both are running in same direction.

Speed of thief = 10 km/hr and speed of policeman = 18 km/hr

=> Relative speed = 18 - 10 = 8 km/hr

Distance between them = 500 metres = 0.5 km

=> Time taken = $\frac{\text{distance}}{\text{speed}}$

$$= \frac{0.5}{8} = \frac{1}{16} \text{ hr}$$

∴ Distance covered by thief before he was caught = $10 \times \frac{1}{16}$

= 0.625 km = 625 metres

=> Ans - (A)

Question 32

What smallest number should be added to 2957 so that the sum is completely divisible by 17 ?

- A 9
- B 2
- C 3
- D 1

Answer: D

Explanation:

If 2957 is divisible 17, => $2957 = 17 \times 173 + 16$

Quotient is 173 and remainder is 16

Thus, smallest number that should be added to 2957 so that the sum is completely divisible by 17 = $(17 - 16) = 1$

=> Ans - (D)

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Question 33

If $\frac{\sin^2 A - \sin^2 B}{\cos^2 A \cos^2 B} = x$, then the value of x is

- A $\tan^2 A - \tan^2 B$
- B $\cot^2 A - \cot^2 B$
- C $\tan A - \tan B$
- D $\cot A - \cot B$

Answer: A

Explanation:

Given, $x = \frac{\sin^2 A - \sin^2 B}{\cos^2 A \cos^2 B}$

$$\Rightarrow x = \frac{1 - \cos^2 A - (1 - \cos^2 B)}{\cos^2 A \cos^2 B}$$

$$\Rightarrow x = \frac{\cos^2 B - \cos^2 A}{\cos^2 A \cos^2 B}$$

$$\Rightarrow x = \frac{1}{\cos^2 A} - \frac{1}{\cos^2 B}$$

$$\Rightarrow x = \sec^2 A - \sec^2 B$$

$$\Rightarrow x = 1 + \tan^2 A - 1 - \tan^2 B$$

$$\Rightarrow x = \tan^2 A - \tan^2 B$$

Question 34

How many balls of radius 3 cm can be made by melting a bigger ball of diameter 48 cm?

A 1024

B 512

C 64

D 256

Answer: B

Explanation:

Since the larger ball is melted, the volume will remain constant.

Radius of big ball = 24 cm and radius of small balls = 3 cm

Let n balls be formed

$$\Rightarrow \frac{4}{3} \times \pi \times 3^3 \times n = \frac{4}{3} \times \pi \times 24^3$$

$$\Rightarrow n = \frac{24^3}{3^3} = \left(\frac{24}{3}\right)^3$$

$$\Rightarrow n = 8^3 = 512$$

\Rightarrow Ans - (B)

Question 35

By increasing the price of entry ticket to a fair in the ratio 9:13, the number of visitors to the fair has decreased in the ratio 7:4. In what ratio has the total collection increased or decreased?

A increased in the ratio 52:63

B increased in the ratio 36:91

C decreased in the ratio 63:52

D decreased in the ratio 91:36

Answer: C

Explanation:

Let cost of original ticket = Rs 9 and number of visitors = 70

$$\Rightarrow \text{Original revenue} = 9 \times 70 = \text{Rs } 630$$

After increase in cost of ticket

New cost of ticket = Rs 13 and number of visitors = 40

$$\Rightarrow \text{New Revenue} = 13 \times 40 = \text{Rs } 520$$

Since, new revenue is less than original revenue, thus total collection has decreased.

\therefore Decrease in total collection ratio = $\frac{630}{520} = 63 : 52$

=> Ans - (C)

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Question 36

A student multiplied a number by $\frac{5}{7}$ instead of $\frac{7}{5}$. What is the percentage error in the calculation?

- A 48.98 percent
- B 96 percent
- C 24.49 percent
- D 48 percent

Answer: A

Explanation:

Let the number be 'x'.

This number was supposed to be multiplied by ' $\frac{7}{5}$ ' to get ' $\frac{7x}{5}$ '.

But it was multiplied by ' $\frac{5}{7}$ ' to get ' $\frac{5x}{7}$ '.

So, percentage error = $\frac{\frac{7x}{5} - \frac{5x}{7}}{\frac{7x}{5}} * 100$

$$= \frac{49 - 25}{49} * 100$$

$$= \frac{24}{49} * 100$$

$$\approx 48.98\%$$

=> Ans - (A)

Question 37

The average revenues of 9 consecutive years of a company is Rs 68 lakhs. If the average of first 5 years is Rs 63 lakhs and that of last 5 years is Rs 75 lakhs, find the revenue for the 5th year.

- A Rs 80 lakhs
- B Rs 76 lakhs
- C Rs 78 lakhs
- D Rs 74 lakhs

Answer: C

Explanation:

Total revenues of 9 years of the company = $68 \times 9 =$ Rs. 612 lakhs

Total revenue of first 5 years = $63 \times 5 =$ Rs. 315 lakhs

Total revenue of last 5 years = $75 \times 5 =$ Rs. 375 lakhs

\therefore Revenue of 5th year = $(315 + 375) - 612 = 690 - 612$

= Rs. 78 lakhs

=> Ans - (C)

Question 38

ΔGHI is similar to ΔKLM . If the ratio of Perimeter of ΔGHI : Perimeter of $\Delta KLM = 9:4$ and length of GH is 27 cm what is the length of the corresponding side KL?

- A 12 cm
- B 9 cm
- C 24 cm
- D 18 cm

Answer: A

Explanation:

It is given that $\Delta GHI \sim \Delta KLM$

Let length of KL = x cm and length of the corresponding side GH = 27 cm

Also, ratio of Perimeter of ΔGHI : Perimeter of $\Delta KLM = 9:4$

=> Ratio of Perimeter of ΔGHI : Perimeter of $\Delta KLM =$ Ratio of corresponding sides = GH : KL

$$\Rightarrow \frac{9}{4} = \frac{27}{x}$$

$$\Rightarrow x = \frac{27 \times 4}{9} = 3 \times 4$$

$$\Rightarrow x = 12 \text{ cm}$$

=> Ans - (A)

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Question 39

A(7,-8) and C(1,4) are vertices of a square ABCD. Find equation of diagonal BD?

- A $x - 2y = -8$
- B $x - 2y = 8$
- C $x + 2y = -8$
- D $x + 2y = 8$

Answer: B

Explanation:

Diagonals of a square bisect each other perpendicularly.

=> BD perpendicularly bisects diagonal joining A(7,-8) and C(1,4) at O, thus O is the mid point of AC and BD.

$$\Rightarrow \text{Coordinates of O} = \left(\frac{7+1}{2}, \frac{-8+4}{2} \right)$$

$$= \left(\frac{8}{2}, \frac{-4}{2} \right) = (4, -2)$$

$$\text{Now, slope of AC} = \frac{y_2 - y_1}{x_2 - x_1} = \frac{4 - (-8)}{1 - 7}$$

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

Let slope of line BD = m

Product of slopes of two perpendicular lines = -1

$$\Rightarrow m \times -2 = -1$$

$$\Rightarrow m = \frac{1}{2}$$

Equation of a line passing through point (x_1, y_1) and having slope m is $(y - y_1) = m(x - x_1)$

\therefore Equation of line BD passing through $O(4, -2)$

$$\Rightarrow (y + 2) = \frac{1}{2}(x - 4)$$

$$\Rightarrow 2y + 4 = x - 4$$

$$\Rightarrow x - 2y = 4 + 4 = 8$$

\Rightarrow Ans - (B)

Question 40

What is the measure of an exterior angle of a regular dodecagon?

A 45°

B 40°

C 36°

D 30°

Answer: D

Explanation:

Sum of all exterior angles of any polygon = 360°

Number of sides of dodecagon, $n = 12$

In a regular decagon, all sides are equal and thus all angles are equal.

\therefore Measure of each exterior angle = $\frac{360}{12} = 30^\circ$

\Rightarrow Ans - (D)

Question 41

The perimeter of a square is 40 cm, find its area?

A 100 sq cm

B 25 sq cm

C 50 sq cm

D 160 sq cm

Answer: A

Explanation:

Let side of square = s cm

Perimeter of square = $4 \times s = 40$

$$\Rightarrow s = \frac{40}{4} = 10 \text{ cm}$$

\therefore Area of square = $(s)^2$

$$= (10)^2 = 100 \text{ cm}^2$$

\Rightarrow Ans - (A)

Question 42

A bank offers 5% compound interest per half year. A customer deposits Rs. 6400 each on 1st January and 1st July of a year. At the end of the year, the amount he would have gained by way of interest is:

- A Rs 1952
- B Rs 488
- C Rs 976
- D Rs 244

Answer: C

Explanation:

The interest earned on 6400 from Jan to July will be $6400 \times 5 \times \frac{1}{100}$ (Since rate of interest is 5 % per 6 months)
 $= 64 \times 5 = 320$

Hence, 6400 will amount to 6720. He adds another 6400 to this. So the net amount becomes $6400 + 6720 = 13120$.

Now interest earned on this amount in a period of 6 months will be $13120 \times 5 \times \frac{1}{100} = 656$

So the final amount will be $13120 + 656 = 13776$

Total money he deposited = $6400 + 6400 = 12800$

Hence, amount earned via interest = $13776 - 12800 = 976$

=> Ans - (C)

Question 43

Coefficient of x^2 in $(x + 3)(2 - 4x)(5x - 6)$ is

- A 26
- B -74
- C 74
- D -26

Answer: D

Explanation:

A coefficient is a numerical or constant quantity placed before and multiplying the variable in an algebraic expression. Eg : In ax^2 , coefficient is a

Expression : $(x + 3)(2 - 4x)(5x - 6)$

$= (2x - 4x^2 + 6 - 12x)(5x - 6)$

$= (-4x^2 - 10x + 6)(5x - 6)$

$= 5x(-4x^2 - 10x + 6) - 6(-4x^2 - 10x + 6)$

$= -20x^3 - 50x^2 + 30x + 24x^2 + 60x - 36$

$= -20x^3 - 26x^2 + 90x - 36$

\therefore Coefficient of $x^2 = -26$

=> Ans - (D)

Question 44

If $a + b = 10$ and $a^2 + b^2 = 58$, then find ab

- A 21
- B 24
- C 25
- D 16

Answer: A

Explanation:

Given : $(a + b) = 10$ and $a^2 + b^2 = 58$

Using $(a + b)^2 = a^2 + b^2 + 2ab$

$$\Rightarrow (10)^2 = 58 + (2 \times ab)$$

$$\Rightarrow 2ab = 100 - 58 = 42$$

$$\Rightarrow ab = \frac{42}{2} = 21$$

\Rightarrow Ans - (A)

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Question 45

The ten's digit of a 2-digit number is greater than the units digit by 2. If we subtract 18 from the number, the new number obtained is a number formed by interchange of the digits. Find the number.

- A 75
- B 64
- C 53
- D Cannot be determined

Answer: D

Explanation:

Let the unit's digit of the number be y and ten's digit be x

$$\Rightarrow \text{Number} = 10x + y$$

$$\text{According to ques, } \Rightarrow x - y = 2 \text{ -----(i)}$$

$$\text{According to question, } \Rightarrow 10x + y - 18 = 10y + x$$

$$\Rightarrow 9x - 9y = 18$$

$$\Rightarrow x - y = \frac{18}{9} = 2 \text{ -----(ii)}$$

Equations (i) and (ii) are same and thus we have two variables and one equation

Number can be = 97, 86, 75, 64 and so on and thus the solution cannot be determined.

\Rightarrow Ans - (D)

Question 46

If $2x - 2(4 - x) < 2x - 3 < 3x + 3$; then x can take which of the following values?

- A 2
- B 3

C 4

D 5

Answer: A

Explanation:

Expression 1 : $2x - 3 < 3x + 3$

$\Rightarrow 3x - 2x > -3 - 3$

$\Rightarrow x > -6$ -----(i)

Expression 2 : $2x - 2(4 - x) < 2x - 3$

$\Rightarrow 4x - 8 < 2x - 3$

$\Rightarrow 4x - 2x < 8 - 3$

$\Rightarrow x < \frac{5}{2}$ -----(ii)

Combining inequalities (i) and (ii), we get : $-6 < x < \frac{5}{2}$

Thus, only value that x can take among the options = 2

\Rightarrow Ans - (A)

Question 47

Refer the Table and answer the given Questions

What is the total Value of the stocks in Lakhs

| | Quantity of stock | Average Cost (Rs) |
|---------------|-------------------|-------------------|
| Mobile Phones | 44 | 11000 |
| Cameras | 95 | 6000 |
| TVs | 37 | 41000 |
| Refrigerators | 33 | 49000 |
| ACs | 45 | 22000 |

A 51.78

B 517.8

C 129

D 254

Answer: A

Explanation:

Total Value of the stocks = $(44 \times 11000) + (95 \times 6000) + (37 \times 41000) + (33 \times 49000) + (45 \times 22000) = 4,84,000 + 5,70,000 + 15,17,000 + 16,17,000 + 9,90,000 = 51,78,000 = 51.78 \text{ lakhs}$

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Question 48

Refer the Table and answer the Given Questions

If the imports in 2012 was Rs. 1400 crores and the total exports in the years 2012 and 2013 together was Rs. 2400 crores, then the imports in 2013 was?

| Year | Ratio of Imports to Exports |
|------|-----------------------------|
| 2011 | 0.9 |
| 2012 | 1.3 |
| 2013 | 0.7 |
| 2014 | 1.1 |
| 2015 | 0.7 |

- A 1077
- B 1323
- C 926
- D 1890

Answer: C

Explanation:

Imports in 2012 = Rs. 1400 crores

Let Exports in 2012 = Rs. y crores

Ratio of imports and exports in 2012 = 1.3

$$\Rightarrow \frac{1400}{y} = 1.3$$

$$\Rightarrow y = \frac{1400}{1.3} = 1076.92$$

Total exports In the years 2012 and 2013 together = Rs. 2400 crores

\Rightarrow Exports in 2013 = Rs. $(2400 - 1076.92)$ crores = Rs. 1323.08 crores

Let imports in 2013 = Rs. x crores

Ratio of imports and exports in 2013 = $\frac{x}{1323.08} = 0.7$

$$\Rightarrow x = 1323.08 \times 0.7 = 926.156 \approx 926$$

\therefore Imports in 2013 was Rs. 926 crores

\Rightarrow Ans - (C)

Question 49

Refer the Table and answer the given Answer ?

Why was the increase in height of the boy from 5th to 13th Birthday?

| Measured On Birthday | Hieght of Children in CMs |
|----------------------|---------------------------|
| 4 | 100 |
| 5 | 110 |
| 6 | 115 |
| 7 | 120 |
| 8 | 125 |
| 9 | 130 |
| 10 | 140 |
| 11 | 150 |
| 12 | 155 |
| 13 | 160 |
| 14 | 165 |
| 15 | 170 |
| 16 | 175 |

- A 55 cm
- B 50 cm
- C 45 cm
- D 60 cm

Answer: B

Explanation:

Height on 5th birthday = 110 cm

Height on 13th birthday = 160 cm

Increase in height = $160 - 110 = 50$ cm

=> Ans - (B)

Question 50

Refer the table and answer the given Questions?

Between 10 pm to 6 am, a fitness band records the following data. How long was the user in Light sleep or was Awake?

| | |
|----------------|----|
| Deep Sleep | 15 |
| Dreaming | 20 |
| Light Sleep | 10 |
| Exreamly Sleep | 15 |
| Awake | 40 |

- A 2.5 hours
- B 3.5 hours
- C 4 hours
- D 4.5 hours

Answer: C

Explanation:

Total time between 10 pm to 6 am = 8 hours

% time spent in light sleep or in awake = $10 + 40 = 50\%$

=> Time spent in light sleep or in awake = $\frac{50}{100} \times 8$

= $\frac{8}{2} = 4$ hours

=> Ans - (C)

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English

Instructions

For the following questions answer them individually

Question 51

Select the antonym of 'grotesque'

- A horrid
- B pleasing
- C appalling
- D grisly

Answer: B

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Question 52

In the following question, out of the four alternatives, select the alternative which is the best substitute of the phrase.
A trace or remnant of something that is disappearing or no longer exists.

- A memento
- B variable
- C glimmer
- D vestige

Answer: D

Explanation:

Vestige means trace amount or remnant of something that is disappearing.

Question 53

In the following question, some part of the sentence may have errors. Find out which part of the sentence has an error and select the appropriate option. If a sentence is free from error, select 'No Error'.

She decided to drink(A)/water instead of soft drinks(B)/ in order to lose weight.(C)/No error(D)

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

Answer: D

Question 54

In the following question, the sentence given with blank to be filled in with an appropriate word. Select the correct alternative out of the four and indicate it by selecting the appropriate option.

He is so _____ in his beliefs that no one can change his mind!

- A vigorous
- B adamant
- C tough
- D stiff

Answer: B

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Question 55

In the following question, out of the four alternatives, select the alternative which best expresses the meaning of the idiom/phrase. fixed in one's ways

- A not wanting to change how one does things
- B one will succeed if one does not change their path
- C trapped in a particular unpleasant situation
- D a dilemma of two different paths

Answer: A

Question 56

In the following question, a sentence has been given in Active/Passive voice. Out of four alternatives suggested, select the one, which best expresses the same sentence in Passive/Active voice.

We will send you your laboratory reports as soon as they are ready.

- A You would be sent your laboratory reports as soon as they will be ready.
- B Your laboratory reports will be sent to you as soon as they are ready.
- C You would be send your laboratory reports as soon as they will be ready.
- D Your laboratory reports should be sent to you as soon as they are ready.

Answer: B

Question 57

Select the antonym of 'to procure'

- A to forfeit
- B to appropriate
- C to solicit

D to wangle

Answer: A

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Question 58

Select the synonym of 'impassive'

A ardent

B reticent

C agitated

D susceptible

Answer: B

Question 59

Improve the bracketed part of the sentence.
I feel (out for sorts) today.

A of sort

B out of sort

C out of sorts

D no improvement

Answer: C

Question 60

In the following question, a sentence has been given in Direct/Indirect speech. Out of the four alternatives suggested, select the one, which best express the same sentence in Indirect/Direct speech.
'Are you coming with us?' Isha asked Nishi.

A Isha asked Nisha whether she would be going with them.

B Isha asked Nisha if she was going with them.

C Isha asked Nisha whether she would go with them.

D Isha asked Nisha whether she would come with us.

Answer: B

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Question 61

Select the synonym of 'to revamp'

A to overhaul

B to maraud

- C to raze
- D to sabotage

Answer: A

Question 62

Select the word with the correct spelling.

- A mistique
- B chimmeras
- C plesure
- D obituary

Answer: D

Question 63

In the following question, out of the four alternatives, select the alternative which is the best substitute of the phrase. To trip or momentarily lose one's balance; almost fall.

- A to totter
- B to stammer
- C to stumble
- D to blunder

Answer: C

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Question 64

Improve the bracketed part of the sentence.

An increase in incidents of chain snatching (has been reported) in the newspapers recently.

- A has been written
- B have been reported
- C are being reported
- D no improvement

Answer: D

Question 65

In the following question, some part of the sentence may have errors. Find out which part of the sentence has an error and select the appropriate option. If a sentence is free from error, select 'No Error'.

You want to stay(A)/with him, in spite(B)/off what he did?(C)/No error(D)

- A A
- B B

C C

D D

Answer: C

Question 66

In the following question, the sentence given with blank to be filled in with an appropriate word. Select the correct alternative out of the four and indicate it by selecting the appropriate option.

I shall _____ receipt of your email even if I cannot respond to it immediately.

A acknowledge

B endorse

C ratify

D allow

Answer: A

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Question 67

Rearrange the parts of the sentence in correct order.

It may not be a simple

P-someone does stand to gain

Q-by keeping farmers divided

R-case of "divide and rule", but

A QPR

B PQR

C RPQ

D QRP

Answer: C

Question 68

Rearrange the parts of the sentence in correct order.

Rewarding an encroacher on public

P-reward to a pickpocket

Q-site is like giving a

R-land with free alternative

A QRP

B QPR

C PRQ

D RQP

Answer: D

Question 69

Select the word with the correct spelling.

- A coroded
- B topalogy
- C homogony
- D protuzoa

Answer: C

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Question 70

In the following question, out of the four alternatives, select the alternative which best expresses the meaning of the idiom/phrase. **flash in the pan**

- A a trick one learn which makes thier work easier
- B a thing or person whose sudden but brief success is not repeated
- C to build something good but it gets destroyed
- D to find something unpleasant in food

Answer: B

Question 71

In the following passage, some of the words have been left out. Read the passage carefully and select the correct answer for the given blank out of the four alternatives.

Since the justification for the demand of anonymity and confidentiality is _____(1)_____ questioned by reporters, and since the deals _____(2)_____ routinely between reporter and privileged source to grant confidential _____(3)_____ are rarely monitored and supervised properly within the newsroom, the misuse of sources by journalists, and what is _____(4)_____ damaging, the misuse of journalists and the news media by privileged sources _____(5)_____ epidemic proportions.

1. confidentiality is _____ questioned by reporters

- A rarely
- B ever
- C once
- D infinitely

Answer: A

Instructions

In the following passage, some of the words have been left out. Read the passage carefully and select the correct answer for the given blank out of the four alternatives.

Since the justification for the demand of anonymity and confidentiality is _____(1)_____ questioned by reporters, and since the deals _____(2)_____ routinely between reporter and privileged source to grant confidential _____(3)_____ are rarely monitored and supervised properly within the newsroom, the misuse of sources by journalists, and what is _____(4)_____ damaging, the misuse of journalists and the news media by privileged sources _____(5)_____ epidemic proportions.

Question 72

2. since the deals _____ routinely between reporter

- A strike
- B striked
- C striking
- D struck

Answer: D

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Question 73

3. privileged source to grant confidential _____ are rarely monitored

- A dignity
- B pride
- C status
- D degree

Answer: C

Question 74

4. and what is _____ damaging

- A more so
- B more of
- C even more
- D even too

Answer: C

Question 75

5. The news media by privileged sources _____ epidemic proportions.

- A assume
- B have assumed
- C so assume
- D being assumed

Answer: B

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Reasoning

Instructions

For the following questions answer them individually

Question 76

Select the related word/letters/number from the given alternatives.

Dissemble : Feign :: Divulge : ?

- A Mollify
- B Request
- C Agree
- D Disclose

Answer: D

Explanation:

Dissemble and feign are synonyms meaning to conceal or disguise. Similarly, synonym of divulge is disclose.

=> Ans - (D)

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Question 77

Select the related word/letters/number from the given alternatives.

EF : OP :: ? : ST

- A GH
- B LM
- C JK
- D IJ

Answer: D

Explanation:

Expression = EF : OP :: ? : ST

The pattern followed is :

| | |
|-------|-------|
| E | F |
| (+10) | (+10) |
| O | P |

Similarly, IJ : ST

| | |
|-------|-------|
| I | J |
| (+10) | (+10) |
| S | T |

=> Ans - (D)

Question 78

Select the related word/letters/number from the given alternatives.

TZ : GA :: QR : ?

- A KN

Question 81

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

- A AIO
- B OEU
- C UIO
- D BOI

Answer: D

Explanation:

The letters BOI contains a consonant, while all other options contain only vowels, hence BOI is the odd one out.

=> Ans - (D)

Question 82

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

- A 5611
- B 5492
- C 8750
- D 9911

Answer: A

Explanation:

Apart from 5611, sum of digits of all other numbers is 20, hence 5611 is the odd one out.

=> Ans - (A)

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Question 83

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

- A 289
- B 484
- C 784
- D 1331

Answer: D

Explanation:

$1331 = (11)^3$, all other numbers are not perfect cube numbers, hence 1331 is the odd one out.

=> Ans - (D)

Question 84

A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.
Mohammad Hamid Ansari, Bhairon Singh Shekhawat, Krishan Kant, ?

- A Rajendra Prasad
- B K.R.Narayanan
- C Shankar Dayal Sharma
- D V.V.Giri

Answer: B

Explanation:

Successive series of the Vice president of India.

= Mohammad Hamid Ansari -> Bhairon Singh Shekhawat -> Krishan Kant -> K.R.Narayanan

=> Ans - (B)

Question 85

A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.
GH, LM, PQ, ST, ?

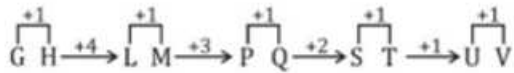
- A UZ
- B UY
- C UX
- D UV

Answer: D

Explanation:

Expression : GH, LM, PQ, ST, ?

The pattern followed is :



Thus, missing term = UV

=> Ans - (D)

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Question 86

A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.
SR, ON, ?, GF

- A EF
- B HI
- C KJ
- D HK

Answer: C

Explanation:

Expression : SR, ON, ?, GF

The pattern followed in each letter of the terms is :

1st letter : S (-4 letters) = O (-4 letters) = K (-4 letters) = G

2nd letter : R (-4 letters) = N (-4 letters) = J (-4 letters) = F

Thus, missing term = **KJ**

=> Ans - (C)

Question 87

A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.
60, 121, 243, ?

A 480

B 487

C 484

D 486

Answer: B

Explanation:

The pattern followed is :

$$60 \times 2 + 1 = 121$$

$$121 \times 2 + 1 = 243$$

$$243 \times 2 + 1 = \mathbf{487}$$

=> Ans - (B)

Question 88

In the following question, two statements are given each followed by two conclusions I and II. You have to consider the statements to be true even if they seem to be at variance from commonly known facts. You have to decide which of the given conclusions, if any, follows from the given statements.

Statement:

(I) Holidays are meant to relax, rejuvenate and recollect energy.

(II) People generally go for outing in holidays and get tired in those days as well.

Conclusions:

(I) Holidays are meant for resting.

(II) Outing and different environment automatically rejuvenate.

A Only conclusion II follows

B Conclusion I and II both follow

C Neither I nor II follow

D Only conclusion I follows

Answer: D

Explanation:

The first statement indicates that Holidays are meant to relax, and to get energized, thus the first conclusion definitely follows. But, the second statement indicates that people can get tired by going out, thus second conclusion contradicts it, and hence does not follow.

Thus, only conclusion I follows.

=> Ans - (D)

Question 89

There are five boys P, Q, R, S and T standing in a line. Q is taller than T but shorter than P. S is shorter than T but taller than R. Who is the shortest?

- A S
- B R
- C T
- D P

Answer: B

Explanation:

Q is taller than T but shorter than P, $\Rightarrow P > Q > T$.

S is shorter than T but taller than R, $\Rightarrow T > S > R$.

Combining above statements, we get : $P > Q > T > S > R$

Thus, R is the shortest.

\Rightarrow Ans - (B)

Question 90

Arrange the given words in the sequence in which they occur in the dictionary.

- i. Catadrome
- ii. Catagenesis
- iii. Catabolic
- iv. Catabolism

- A ii,iii,iv,i
- B iii,iv,i,ii
- C iii,iv,ii,i
- D i,ii,iii,iv

Answer: B

Explanation:

As per the order of dictionary :

= Catabolic \rightarrow Catabolism \rightarrow Catadrome \rightarrow Catagenesis

\equiv iii,iv,i,ii

\Rightarrow Ans - (B)

Question 91

In a certain code language, "TOMATO" is written as "023402" and "ORIONL" is written as "275269". How is "NORMAL" written in that code language?

- A 627340
- B 627344
- C 627349
- D 627430

Answer: C

Explanation:

The codes for each letter is given :

- N -> 6
- O -> 2
- R -> 7
- M -> 3
- A -> 4
- L -> 9

Thus, NORMAL : 627349

=> Ans - (C)

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Question 92

Find the Missing Number from the given Table

| | | |
|---|----|----|
| 3 | 12 | 24 |
| 4 | 16 | 32 |
| 5 | 20 | ? |

- A 17
- B 50
- C 40
- D 25

Answer: C

Explanation:

The pattern followed is that in each row, the numbers are of the form : $x, 4x, 8x$

Eg : $3, (4 \times 3), (8 \times 3) = 3, 12, 24$

and $4, (4 \times 4), (8 \times 4) = 4, 16, 32$

Similarly, $5, (4 \times 5), (8 \times 5) = 5, 20, 40$

Thus, missing term = 40

=> Ans - (C)

Question 93

If '+' means 'minus', 'x' means 'divided by', '÷' means 'plus' and '-' means 'multiplied by', then $104 \times 13 + 9 - 5 \div 6 = ?$

- A -31
- B -36
- C -37
- D -34

Answer: A

Explanation:

Expression : $104 \times 13 + 9 - 5 \div 6 = ?$

$$\equiv 104 \div 13 - 9 \times 5 + 6$$

$$= 8 - 45 + 6$$

$$= 14 - 45 = -31$$

=> Ans - (A)

Question 94

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

A cbca

B abcd

C bdac

D abdc

Answer: A

Explanation:

The pattern followed is that in groups of 4, the term 'accb' is repeated.

= accb accb accb

=> Ans - (A)

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Question 95

Arjun is facing south, then he turns 45° right and goes 50 m, then turns north-west to move 50 m and from there 50 m to west. In which direction/place is he from his original place?

A West

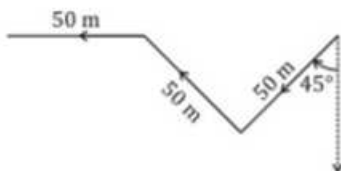
B North

C East

D North-west

Answer: A

Explanation:



Arjun is facing south, then he turns 45° right and travelled south-west for 50 m, then turns north-west to move 50 m and finally from there 50 m to west.

Thus, he is west from his original place.

=> Ans - (A)

Question 96

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 shown in the given two matrices. 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, for example, 'R' can be represented by 02, 20 etc. and 'U' can be represented by 56, 65 etc. Similarly, you have to identify the set for the word 'ROUGH'.

MATRIX 1

| | | | | | |
|---|---|---|---|---|---|
| | 0 | 1 | 2 | 3 | 4 |
| 0 | A | Q | R | V | W |
| 1 | S | R | K | G | O |
| 2 | R | E | J | O | Y |
| 3 | F | T | O | E | L |
| 4 | G | O | L | D | F |

MATRIX 2

| | | | | | |
|---|---|---|---|---|---|
| | 5 | 6 | 7 | 8 | 9 |
| 5 | D | U | L | G | H |
| 6 | U | K | G | R | S |
| 7 | T | G | E | P | H |
| 8 | G | A | A | H | I |
| 9 | V | S | H | O | K |

- A 02,23,65,31,97
- B 02,23,56,13,78
- C 02,23,56,13,97
- D 02,33,56,13,97

Answer: C

Explanation:

- (A) : 02,23,65,31,97 = ROUTH
- (B) : 02,23,56,13,78 = ROUGP
- (C) : 02,23,56,13,97 = **ROUGH**
- (D) : 02,33,56,13,97 = REUGH

=> Ans - (C)

Question 97

Introducing a boy, a girl said, "He is the son of the sister of my mother's brother". How is that boy related to that girl?

- A Cousin
- B Uncle
- C Father-in-law
- D Niece

Answer: A

Explanation:

Sister of the girl's mother's brother = girl's aunt

Now, the boy is son of girl's aunt.

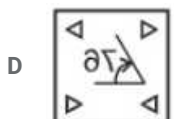
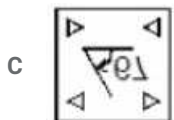
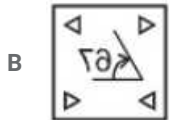
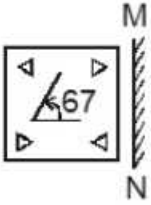
=> Boy and girl are cousins.

=> Ans - (A)

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Question 98

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



Answer: B

Explanation:

A vertical mirror is placed, so the object on the left will appear right in reverse position and vice-versa.

So the number 67 in the middle will be reversed, thus the first and last options are eliminated.

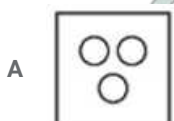
Also, in the question figure, the arrow which is pointing towards left will turn towards right side, hence second option is the right image.

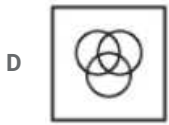
=> Ans - (B)

Question 99

Identify the diagram that best represents the relationship among the given classes.

Metal, Oxygen, Copper





Answer: C

Explanation:

Copper is a metal but oxygen is not related to any of these.

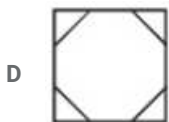
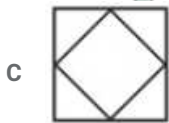
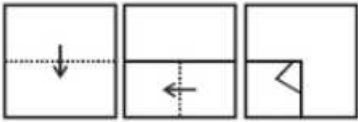
Thus, the venn diagram that best describes above relationship is :



=> Ans - (C)

Question 100

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



Answer: B

Explanation:

When the paper is punched and unfolded, the pattern of cutting will be similar in the four quadrants as shown below



Hence, the correct answer is Option B

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