



SSC CHSL 22 March 2018 Evening Shift

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Instructions

For the following questions answer them individually

Question 1

Find the square root of 1471369.

- A 1213
- B 1223
- C 1203
- D 1233

Answer: A

Explanation:

Among the given options, only the square of 1213 will end in 69

$$\Rightarrow (1213)^2 = 1471369$$

$$\Rightarrow \text{Square root of } 1471369 = \sqrt{1471369} = 1213$$

\Rightarrow Ans - (A)

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Question 2

Calculate the total numbers of prime factors in the expression $(9)^{11} \times (5)^7 \times (7)^5 \times (3)^2 \times (17)^2$

- A 35
- B 36
- C 37
- D 38

Answer: D

Explanation:

$$\text{Expression : } (9)^{11} \times (5)^7 \times (7)^5 \times (3)^2 \times (17)^2$$

$$\text{Prime factorization} = (3)^{22} \times (5)^7 \times (7)^5 \times (3)^2 \times (17)^2$$

$$= (3)^{24} \times (5)^7 \times (7)^5 \times (17)^2$$

Now, there are 4 distinct factors = 3, 5, 7, 17

$$\text{Total number of prime factors} = 24 + 7 + 5 + 2 = 38$$

\Rightarrow Ans - (D)

Question 3

Find the y-intercept of the line joining two points (1, 3) and (3, 5).

- A -2
- B 0
- C 2

D 4

Answer: C

Explanation:

Equation of line joining points (x_1, y_1) and (x_2, y_2) is: $(y - y_1) = \frac{y_2 - y_1}{x_2 - x_1}(x - x_1)$

Points (1, 3) and (3, 5)

$$\Rightarrow \text{Equation: } (y - 3) = \frac{5-3}{3-1}(x - 1)$$

$$\Rightarrow y - 3 = x - 1$$

$$\Rightarrow y = x - 1 + 3$$

$$\Rightarrow y = x + 2$$

Comparing with equation $y = mx + c$, m is the slope and c is the y-intercept.

\therefore y-intercept of the line joining two points (1, 3) and (3, 5) = 2

\Rightarrow Ans - (C)

Question 4

The two equations are $4x + 4ky - 6 = 0$ and $x + 6y - 12 = 0$. Find the value of k for the pair of two linear equations represents the parallel lines.

A 2

B 6

C 8

D 10

Answer: B

Explanation:

Equations: $4x + 4ky - 6 = 0$

and $x + 6y - 12 = 0$

Slopes of two parallel lines is equal, and slope of an equation is defined as the negative ratio of coefficient of x to the coefficient of y .

\Rightarrow Slope of equation (i) = Slope of equation (ii)

$$\Rightarrow \frac{-4}{4k} = \frac{-1}{6}$$

$$\Rightarrow \frac{1}{k} = \frac{1}{6}$$

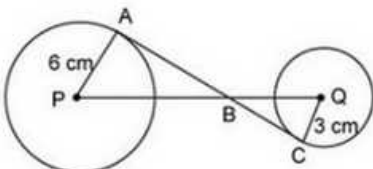
$$\Rightarrow k = 6$$

\Rightarrow Ans - (B)

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Question 5

The two circles with radii 6 cm and 3 cm centered at the point P and Q respectively. A transverse common tangent AC to the both circles cuts line joining P and Q at the point B such that $AB = 8$ cm. Calculate the length (in cm) of PQ.

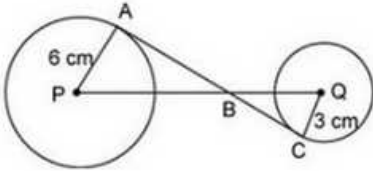


- A 5
- B 10
- C 15
- D 20



Answer: C

Explanation:



Given : $AP = r_1 = 6 \text{ cm}$, $CQ = r_2 = 3 \text{ cm}$ and $AB = 8 \text{ cm}$

To find : $PQ = d = ?$

Solution : In right $\triangle APB$ right angled at A,

$$\Rightarrow (PB)^2 = (AP)^2 + (AB)^2$$

$$\Rightarrow (PB)^2 = (6)^2 + (8)^2$$

$$\Rightarrow (PB)^2 = 36 + 64 = 100$$

$$\Rightarrow PB = \sqrt{100} = 10 \text{ cm} \text{-----(i)}$$

$$\text{Similarly, in } \triangle BCQ, \Rightarrow (BQ)^2 - (BC)^2 = 9 \text{-----(ii)}$$

Also, AC is transverse common tangent,

$$\Rightarrow (AC)^2 = d^2 - (r_1 + r_2)^2$$

$$\Rightarrow (8 + BC)^2 = (10 + BQ)^2 - (6 + 3)^2$$

$$\Rightarrow 64 + (BC)^2 + 16(BC) = 100 + (BQ)^2 + 20(BQ) - 81$$

$$\Rightarrow 16(BC) - 20(BQ) = 19 - 64 + (BQ)^2 - (BC)^2$$

Using value from equation (ii), we get :

$$\Rightarrow 16(BC) - 20(BQ) = 19 - 64 + 9$$

$$\Rightarrow 16(BC) - 20(BQ) = -36$$

$$\Rightarrow 5(BQ) - 4(BC) = 9 \text{-----(iii)}$$

Solving equations (ii) and (iii), we get : $BQ = 5 \text{ cm}$ and $BC = 4 \text{ cm}$

$$\therefore PQ = 10 + 5 = 15 \text{ cm}$$

\Rightarrow Ans - (C)

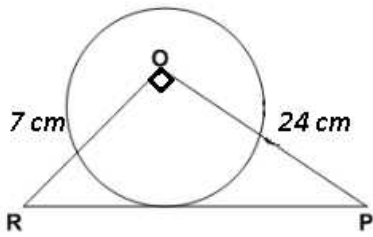
Question 6

The circle of radius 4 cm and centre O has a tangent PR. If $\angle POR = 90^\circ$ and $OR = 7 \text{ cm}$ and $OP = 24 \text{ cm}$. Calculate the length (in cm) of PR.

- A 20
- B 24
- C 25
- D 35

Answer: C

Explanation:



Given : $\angle POR = 90^\circ$ and $OR = 7$ cm and $OP = 24$ cm

To find : $PR = ?$

Solution : In right $\triangle OPR$,

$$\Rightarrow (PR)^2 = (OP)^2 + (OR)^2$$

$$\Rightarrow (PR)^2 = (24)^2 + (7)^2$$

$$\Rightarrow (PR)^2 = 576 + 49 = 625$$

$$\Rightarrow PR = \sqrt{625} = 25 \text{ cm}$$

\Rightarrow Ans - (C)

Question 7

In an election between two candidates, the winning candidate got 70% of the valid votes and won by a majority of 9000 votes. If out of total votes polled 90% votes are valid, then what is the total number of votes polled?

A 30000

B 25000

C 22500

D 27000

Answer: B

Explanation:

Let total number of votes polled = $100x$

$$\Rightarrow \text{Number of valid votes} = \frac{90}{100} \times 100x = 90x$$

% of valid votes received by winning candidate = 70%, \Rightarrow By losing candidate = 30%

$$\text{Difference between votes} = \frac{40}{100} \times 90x = 9000$$

$$\Rightarrow 36x = 9000$$

$$\Rightarrow x = \frac{9000}{36} = 250$$

\therefore Total number of votes polled = $100 \times 250 = 25000$

\Rightarrow Ans - (B)

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Question 8

If $\binom{3}{2}X = \binom{5}{7}Y = \binom{6}{5}Z$, then what is X:Y:Z ?

A 105 : 50 : 84

B 24 : 25 : 32

C 15 : 21 : 25

D 20 : 42 : 25

Answer: D

Explanation:

$$\text{Let } \binom{3}{2}X = \binom{5}{7}Y = \binom{6}{5}Z = k$$

$$\Rightarrow X = \frac{2k}{3}, Y = \frac{7k}{5} \text{ and } Z = \frac{5k}{6}$$

$$\Rightarrow X : Y : Z = \frac{2k}{3} : \frac{7k}{5} : \frac{5k}{6}$$

Multiplying the terms by L.C.M. (3,5,6) = 30

$$\Rightarrow 30\left(\frac{2}{3} : \frac{7}{5} : \frac{5}{6}\right)$$

$$= 20 : 42 : 25$$

\Rightarrow Ans - (D)

Question 9

7 litres mixture of milk and water contains 30% water. 3.5 litres of milk is added to this mixture. What is the percentage of water in the new mixture?

A 10

B 15

C 20

D 25

Answer: C

Explanation:

Quantity of mixture = 7 litres

$$\text{Quantity of water in it} = \frac{30}{100} \times 7 = 2.1 \text{ litres}$$

$$\Rightarrow \text{Quantity of milk} = 7 - 2.1 = 4.9 \text{ litres}$$

If 3.5 litres of milk is added to this mixture, \Rightarrow Total mixture = $7 + 3.5 = 10.5$ litres

$$\therefore \text{Percentage of water in the new mixture} = \frac{2.1}{10.5} \times 100$$

$$= \frac{100}{5} = 20\%$$

\Rightarrow Ans - (C)

Question 10

If the average of 31, x, 42, 39, 56, 78, 83 and 91 is 58.5, then what is the value of x?

A 26

B 34

C 58

D 48

Answer: D

Explanation:

Number of terms = 8

$$\text{Sum of terms} = 31 + x + 42 + 39 + 56 + 78 + 83 + 91 = (x + 420)$$

$$\text{Average} = \frac{x+420}{8} = 58.5$$

$$\Rightarrow x + 420 = 58.5 \times 8$$

$$\Rightarrow x = 468 - 420 = 48$$

\Rightarrow Ans - (D)

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Question 11

The difference between simple interest on a certain sum at the rate of 6% per annum for 5 years and 6 years is 25.8. What is the sum (in Rs)?

A 480

B 430

C 258

D 516

Answer: B

Explanation:

Let the sum be = Rs. $100x$

Rate of interest = 6%

$$\Rightarrow \text{Simple interest} = \frac{P \times R \times T}{100}$$

According to ques,

$$\Rightarrow \left(\frac{100x \times 6 \times 6}{100} \right) - \left(\frac{100x \times 6 \times 5}{100} \right) = 25.8$$

$$\Rightarrow 36x - 30x = 25.8$$

$$\Rightarrow x = \frac{25.8}{6} = 4.3$$

$$\therefore \text{Sum} = 100 \times 4.3 = \text{Rs. } 430$$

\Rightarrow Ans - (B)

Question 12

The ratio of the cost price and selling price of a shirt is 32 : 37. What is the profit percentage

A 15.625

B 13.51

C 17.21

D 14.44

Answer: A

Explanation:

Ratio of cost price to the selling price = 32 : 37

Let Cost price = $x = 32$ and selling price = $y = 37$

$$\Rightarrow \text{Profit \%} = \frac{(y-x)}{x} \times 100$$

$$= \frac{(37-32)}{32} \times 100$$

$$= \frac{500}{32} = 15.625\%$$

=> Ans - (A)

Question 13

Ashopkeeper offers the following 3 schemes. Which scheme has the lowest discount percentage (all articles have same marked price)?

I. Two successive discounts of 10% and 10%

II. Buy 7 get 8

III. Buy 9 get 1 free

- A Only II
- B Only III
- C Only II and III
- D All are equal.

Answer: B

Explanation:

Let marked price = Rs. 100

Scheme I : After 1st discount of 10%, effective price = $100 - \left(\frac{10}{100} \times 100\right) = Rs. 90$

Similarly, after 2nd discount, effective price = Rs. 81

$$\Rightarrow \text{Discount offered} = \frac{(100-81)}{100} \times 100 = 19\%$$

Scheme II : Marked price of 8 = Rs. 800 and selling price of 7 = Rs. 700

$$\Rightarrow \text{Discount \%} = \frac{(800-700)}{800} \times 100 = 12.5\%$$

Scheme III : Marked price of 10 = Rs. 1000 and selling price of 9 = Rs. 900

$$\Rightarrow \text{Discount \%} = \frac{(1000-900)}{1000} \times 100 = 10\%$$

∴ **Scheme III** has the lowest discount percentage.

=> Ans - (B)

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Question 14

If $x = \frac{\sqrt{2}+1}{\sqrt{2}-1}$ and $y = \frac{\sqrt{2}-1}{\sqrt{2}+1}$, then what is the value of $x+y$?

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

Answer: A

Explanation:

Given : $x = \frac{\sqrt{2}+1}{\sqrt{2}-1}$ and $y = \frac{\sqrt{2}-1}{\sqrt{2}+1}$

To find : $x + y = \frac{\sqrt{2}+1}{\sqrt{2}-1} + \frac{\sqrt{2}-1}{\sqrt{2}+1}$

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

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

$$= \frac{3+3}{1} = 6$$

=> Ans - (A)

Question 15

X can complete $\frac{5}{7}$ part of a work in 10 days and Y can complete $\frac{3}{4}$ part of the same work in 9 days. In how many days will both complete $\frac{13}{21}$ part of the total work?

- A 6
- B 4
- C 3
- D 12

Answer: B

Explanation:

Let total work to be done = 1 unit

X complete $\frac{5}{7}$ work in 10 days, => X's efficiency = $\frac{5}{7 \times 10} = \frac{1}{14}$ units/day

Similarly, Y's efficiency = $\frac{3}{4 \times 9} = \frac{1}{12}$ units/day

Thus, (X+Y)'s 1 day's work = $\frac{1}{14} + \frac{1}{12} = \frac{13}{84}$ units/day

Now, $\frac{13}{21}$ part of total work = $\frac{13}{21}$ units

=> Time taken = $\left(\frac{13}{21}\right) \div \left(\frac{13}{84}\right)$

$$= \frac{13}{21} \times \frac{84}{13} = 4 \text{ days}$$

=> Ans - (B)

Question 16

A train starts from a place A at 8:00 a.m. and arrives at another place B at 1:30 p.m. on the same day. If the speed of the train is 30 km/hr, then what will be the distance (in km) covered by the train?

- A 165
- B 175
- C 150
- D 135

Answer: A

Explanation:

Speed of train = 30 km/hr

Time taken to reach place B from 8:00 a.m. to 1:30 p.m. = 5.5 hours

Using, distance = speed \times time

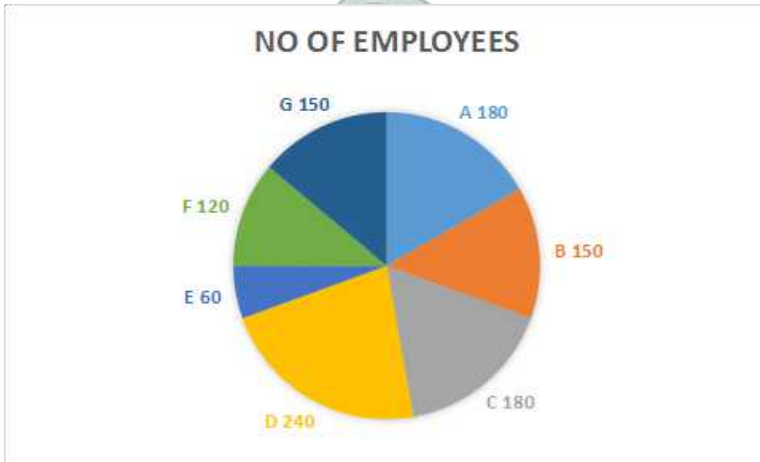
$$= 30 \times 5.5 = 165 \text{ km}$$

=> Ans - (A)

SSC CHSL Important Questions and Answers (Download PDF)

Instructions

The HR department of a company prepared a report. The pie chart represents all the employees of the company and to which state they belong to. Study the diagram and answer the following questions.



Question 17

The least number of employees are from which state?

- A F
- B G
- C A
- D E

Answer: D

Explanation:

The least number of employees are from state **E = 60**

=> Ans - (D)

Question 18

What is the total number of employees of the company?

- A 1020
- B 960
- C 1080
- D 920

Answer: C

Explanation:

Total number of employees of the company

$$= 180 + 150 + 180 + 240 + 60 + 120 + 150$$

$$= 1080$$

=> Ans - (C)

Question 19

The measure of the central angle of the sector representing state B is _____ degrees.

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

Answer: D

Explanation:

Number of employees from State B = 150

Total number of employees of the company

$$= 180 + 150 + 180 + 240 + 60 + 120 + 150 = 1080$$

$$\Rightarrow \text{Required central angle} = \frac{150}{1080} \times 360^\circ$$

$$= \frac{150}{3} = 50^\circ$$

\Rightarrow Ans - (D)

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Question 20

If the average monthly salary of the employees of this company is Rs 25,000 then what is the total of the salaries (in Rs lakhs) paid to all the employees of this company?

- A 27
- B 270
- C 36
- D 360

Answer: B

Explanation:

Total number of employees of the company

$$= 180 + 150 + 180 + 240 + 60 + 120 + 150 = 1080$$

Average monthly salary of the employees of this company = Rs 25,000

$$\text{Total of the salaries (in Rs lakhs) paid to all the employees of this company} = 1080 \times 0.25 = 270$$

\Rightarrow Ans - (B)

Instructions

For the following questions answer them individually

Question 21

The side of an equilateral triangle is 10 cm. Find its area (incm^2)

- A $25\sqrt{3}$
- B $36\sqrt{3}$
- C $25\sqrt{2}$
- D $36\sqrt{2}$

Answer: A

Explanation:

Side of equilateral triangle = 10 cm

$$\text{Area of equilateral triangle} = \frac{\sqrt{3}}{4} (s)^2$$

$$= \frac{\sqrt{3}}{4} \times (10)^2$$

$$= 25\sqrt{3} \text{ cm}^2$$

=> Ans - (A)

Question 22

If the measure of the interior angle of a regular polygon is 108° then how many sides does it have?

A 6

B 8

C 9

D 5

Answer: D

Explanation:

Let number of sides of the polygon = n

Sum of interior angles of a regular polygon = $(n - 2) \times 180^\circ$

$$\Rightarrow (n - 2) \times 180 = 108n$$

$$\Rightarrow 180n - 360 = 108n$$

$$\Rightarrow 180n - 108n = 72n = 360$$

$$\Rightarrow n = \frac{360}{72} = 5$$

=> Ans - (D)

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Question 23

The curved surface area and the diameter of a right circular cylinder are 660 cm^2 and 21 cm respectively. Find its height (in cm).

A 9

B 10

C 12

D 8

Answer: B

Explanation:

Let height of cylinder = h cm and radius, $r = \frac{21}{2}$ cm

Curved surface area = $2\pi rh = 660$

$$\Rightarrow 2 \times \frac{22}{7} \times \frac{21}{2} \times h = 660$$

$$\Rightarrow 22 \times 3 \times h = 660$$

$$\Rightarrow h = \frac{660}{66} = 10 \text{ cm}$$

\Rightarrow Ans - (B)

Question 24

What is the value of $(\frac{1}{\sqrt{3}} + \cos 60^\circ)$?

A $\frac{(2+2\sqrt{3})}{\sqrt{3}}$

B $\frac{(2+\sqrt{3})}{2\sqrt{3}}$

C $\frac{7}{3}$

D $\frac{(\sqrt{2}+1)}{\sqrt{2}}$

Answer: B

Explanation:

Expression : $(\frac{1}{\sqrt{3}} + \cos 60^\circ)$

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

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

\Rightarrow Ans - (B)

Question 25

$\triangle ABC$ is right angled at B. If $\cos A = \frac{8}{17}$, then what is the value of $\cot C$?

A $\frac{15}{8}$

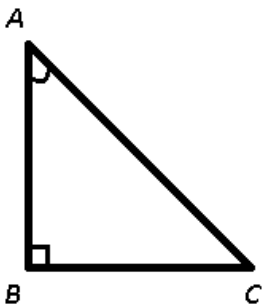
B $\frac{15}{17}$

C $\frac{8}{17}$

D $\frac{17}{15}$

Answer: A

Explanation:



Given : $\cos A = \frac{8}{17}$

Also, $\cos A = \frac{AB}{AC} = \frac{8}{17}$

Let $AB = 8 \text{ cm}$ and $AC = 17 \text{ cm}$

Thus, in $\triangle ABC$,

$$\Rightarrow (BC)^2 = (AC)^2 - (AB)^2$$

$$\Rightarrow (BC)^2 = (17)^2 - (18)^2$$

$$\Rightarrow (BC)^2 = 289 - 64 = 225$$

$$\Rightarrow BC = \sqrt{225} = 15 \text{ cm}$$

To find : $\cot C = \frac{BC}{AB}$

$$= \frac{15}{8}$$

\Rightarrow Ans - (A)

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Reasoning

Instructions

For the following questions answer them individually

Question 26

In the following question, select the related word pair from the given alternatives.

River : Krishna :: ? : ?

- A Planet : Sun
- B Mountain : K2
- C Moon : Satellite
- D Earth : Grass

Answer: B

Explanation:

Expression = River : Krishna :: ? : ?

The second comes under the category of first, i.e. Krishna is a river, similarly K2 is a mountain.

\Rightarrow Ans - (B)

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Question 27

In the following question, select the related number pair from the given alternatives.

43 : 27 :: ? : ?

- A 77 : 65
- B 91 : 87
- C 65 : 49
- D 69 : 55

Answer: C

Explanation:

Expression = 43 : 27 :: ? : ?

The difference between the numbers = $43 - 27 = 16$

Similarly, only the difference between $65 - 49 = 16$

=> Ans - (C)

Question 28

In the following question, select the related letter pair from the given alternatives.

APX : BQY :: ? : ?

- A JRA : KTB
- B JLM : KMP
- C CSN : DTO
- D AXP : BZR

Answer: C

Explanation:

Expression = APX : BQY :: ? : ?

The pattern followed is :

A	P	X
(+1)	(+1)	(+1)
B	Q	Y

Similar pattern is observed only in = **CSN : DTO**

C	S	N
(+1)	(+1)	(+1)
D	T	O

=> Ans - (C)

Question 29

In the following question, select the odd word pair from the given alternatives.

- A Net - Badminton
- B Boxing - Gloves
- C Players - Chess
- D Ball - Cricket

Answer: B

Explanation:

First is the requirement to play the sport in second, net is used in badminton, players in chess and ball in cricket, hence **Boxing - Gloves** is the odd one out, since its order is reversed.

=> Ans - (B)

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Question 30

In the following question, four number pairs are given. The number on left side of (-) is related to the number on the right side of (-) with some Logic/Rule/Relation. Three are similar on basis of same Logic/Rule/Relation. Select the odd one out from the

- A 13 - 14
- B 15 - 16

C 24 - 25

D 19 - 21

Answer: D

Explanation:

The difference between the numbers is 1.

$$14-13 = 16-15 = 25-24 = 1$$

$$\text{But } 21-19 = 2$$

=> Ans - (D)

Question 31

In the following question, select the odd letter/letters from the given alternatives.

A GMS

B KQW

C JPV

D NTY

Answer: D

Explanation:

(A) : G (+6 letters) = M (+6 letters) = S

(B) : K (+6 letters) = Q (+6 letters) = W

(C) : J (+6 letters) = P (+6 letters) = V

(D) : N (+6 letters) = T (+5 letters) = Y

=> Ans - (D)

Question 32

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

1. Throttle

2. Tight

3. Time

4. Tier

5. Thrust

A 12435

B 54123

C 15423

D 25413

Answer: C

Explanation:

As per the order of dictionary :

= Throttle -> Thrust -> Tier -> Tight -> Time

≡ 15423

=> Ans - (C)

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Question 33

In the following question, select the missing number from the given series.

964, ?, 241, 120.5, 60.25

- A 482
- B 384
- C 396
- D 424

Answer: A

Explanation:

All the numbers are divided by 2.

$$964 \div 2 = 482$$

$$482 \div 2 = 241$$

$$241 \div 2 = 120.5$$

$$120.5 \div 2 = 60.25$$

=> Ans - (A)

Question 34

A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.

D, I, N, S, ?

- A Z
- B V
- C W
- D X

Answer: D

Explanation:

Series : D, I, N, S, ?

The pattern followed is :

$$D (+5 \text{ letters}) = I (+5 \text{ letters}) = N (+5 \text{ letters}) = S (+5 \text{ letters}) = X$$

=> Ans - (D)

Question 35

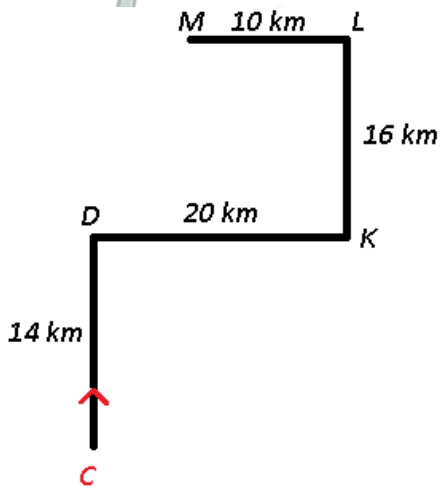
Ganga leaves from her college at 10:00 a.m. She starts walking towards north and covers a distance of 14 km. She turns right and walks 20 km to reach point K. She turns left and walk 16 km. She again turns left and walks 10 km. How far (in km) and in which direction is she now from point K?

- A $3\sqrt{33}$, North-West
- B $2\sqrt{89}$, North-West
- C $3\sqrt{33}$, North-East
- D $2\sqrt{89}$, North-East

Answer: B

Explanation:

Let Ganga leaves from her college at 10:00 a.m from point C. She starts walking towards north and covers a distance of 14 km to reach D. She turns right and walks 20 km to reach point K. She turns left and walk 16 km towards north. She again turns left and walks 10 km westwards to stop at point M.



$$\Rightarrow (KM)^2 = (KL)^2 + (LM)^2$$

$$\Rightarrow (KM)^2 = (10)^2 + (16)^2$$

$$\Rightarrow (KM)^2 = 100 + 256 = 356$$

$$\Rightarrow KM = \sqrt{356} = 2\sqrt{89} \text{ km}$$

\therefore She is $2\sqrt{89}$ km north-west from point K.

\Rightarrow Ans - (B)

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Question 36

From the given alternatives, select the word which CANNOT be formed using the letters of the given word. Countermand

- A Dam
- B Term
- C Rout
- D Main

Answer: D

Explanation:

The word COUNTERMAND does not contain any 'l', thus the term **Main** cannot be formed.

\Rightarrow Ans - (D)

Question 37

In a certain code language, "NOTES" is written as "141520519" and "MAKAR" is written as "13111118". How is "LOFTS" written in that code language?

- A 206191316
- B 121562019
- C 12150219

D 1515121119

Answer: B

Explanation:

The letters are numbered based on their position according to the English alphabetical order. A=1, B=2, C=3, D=4 and so on.

Eg :- NOTES = 14,15,20,5,19 -> 141520519

MAKAR = 13,1,11,1,18 -> 13111118

Similarly, LOFTS = 12,15,6,20,19 -> **121562019**

=> Ans - (B)

Question 38

In a certain code language, 'x' represents '+', '÷' represents 'x', '-' represents '÷' and '+' represents '-'. Find out the answer to the following question.

$$18 \times 12 \div 5 - 10 + 10 = ?$$

A 14

B 6

C 39

D 2

Answer: A

Explanation:

Expression : $18 \times 12 \div 5 - 10 + 10 = ?$

$$\equiv 18 + 12 \times 5 \div 10 - 10$$

$$= 18 + \frac{60}{10} - 10$$

$$= 8 + 6 = 14$$

=> Ans - (A)

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Question 39

The following equation is incorrect. Which two signs should be interchanged to correct the equation?

$$10 + 14 \times 20 - 7 \div 10 = 40$$

A - and ÷

B ÷ and x

C - and +

D x and +

Answer: A

Explanation:

Expression : $10 + 14 \times 20 - 7 \div 10 = 40$

(A) : - and ÷

$$\equiv 10 + 14 \times 20 \div 7 - 10 = 40$$

$$\text{L.H.S.} = 10 + \left(\frac{14}{7} \times 20\right) - 10$$

$$= 10 + 40 - 10 = 40 = \text{R.H.S.}$$

=> Ans - (A)

Question 40

If $12@18 = -3$, $18@6 = 6$ and $16@8 = 4$, then find the value of $6@10 = ?$

- A -10
- B 8
- C 4
- D -2

Answer: D

Explanation:

Given : $12@18 = -3$, $18@6 = 6$ and $16@8 = 4$

If we replace '@' with '-', and divide the difference by 2, we get the desired result.

$$\text{Eg :- } \frac{12-18}{2} = -3$$

$$\text{and } \frac{18-6}{2} = 6 \text{ and } \frac{16-8}{2} = 4$$

$$\text{Similarly, } \frac{6-10}{2} = -2$$

=> Ans - (D)

Question 41

Which of the following terms follows the trend of the given list?

$XYXYXZZ$, $XYXYXZZY$, $XYXZZXY$, $XYXZZYXY$, $XYZZXYXY$, _____.

- A XZZYXYXY
- B ZZXYXYXY
- C XYXYXZZ
- D XYXYXZZY

Answer: A

Explanation:

Expression : $XYXYXZZ$, $XYXYXZZY$, $XYXZZXY$, $XYXZZYXY$, $XYZZXYXY$, _____

The pattern followed is that in each term there are 3 combinations of 'XY' and in each term, there are 2 consecutive Z's starting from last position and shifting one place to the left.

Thus, in the missing term, the second and third terms will be ZZ = **XZZYXYXY**

=> Ans - (A)

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Question 42

Two lady cyclists A and B start from the same point. A cycles 3.5 km West, then turns to her right and cycles 7 km. B cycles 1 km East, then turns North and cycles 7 km, then turns to her left and cycles 2 km. Where is B with respect to A now?

- A 5.5 km East
- B 2.5 km West

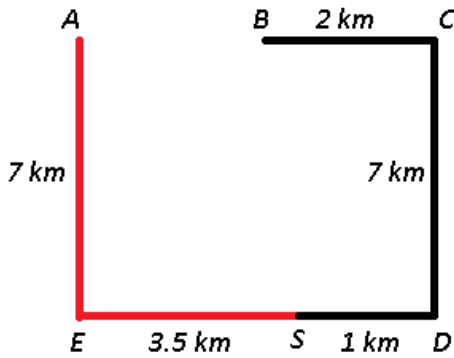
C 2.5 km East

D 5.5 km West

Answer: C

Explanation:

Let the two lady cyclists A and B start from the same point S. A (red) cycles 3.5 km West to reach E, then turns to her right and cycles 7 km northwards. B (black) cycles 1 km East to reach D, then turns North and cycles 7 km to point C, then turns to her left and cycles 2 km towards west.



$$\Rightarrow AB = (3.5 + 1) - 2 = 2.5 \text{ km}$$

\therefore B is 2.5 km east with respect to A now.

\Rightarrow Ans - (C)

Question 43

In the question two statements are given, followed by two conclusions, I and II. You have to consider the statements to be true even if it seems 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: All napkins are towels

Statement II: All rags are napkins

Conclusion I: Some towels are rags

Conclusion II: All rags are towels

A Only conclusion I follows

B Only conclusion II follows

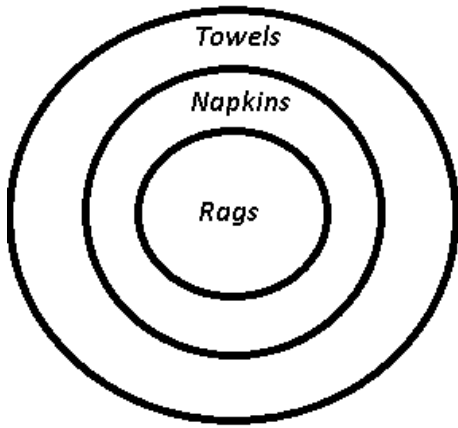
C Both conclusions I and II follow

D Neither conclusion I nor conclusion II follows

Answer: C

Explanation:

The venn diagram for above statements is :



Conclusion I: Some towels are rags = true

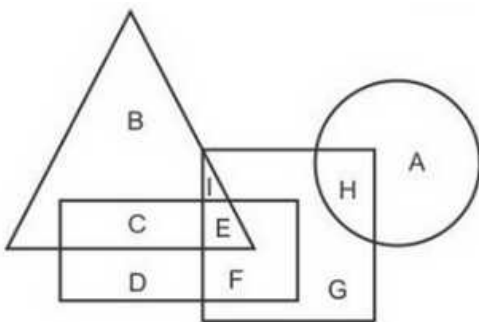
Conclusion II: All rags are towels = true

Thus, both conclusions I and II follow.

=> Ans - (C)

Question 44

In the following figure, rectangle represents Pharmacists, circle represents Lyricists, triangle represents Cooks and square represents Fathers. Which set of letters represents Pharmacists who are either Fathers or Cooks?



A EFG

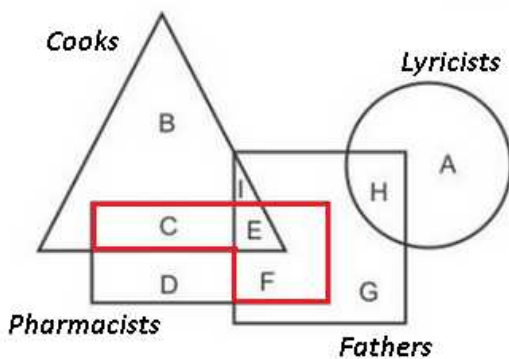
B E

C IEF

D CEF

Answer: D

Explanation:



Pharmacists who are either Fathers or Cooks are represented by = CEF

=> Ans - (D)

Question 45

A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.
DEW, ZAS, VWO, RSK, ?

- A MPH
- B NOG
- C LME
- D PQI

Answer: B

Explanation:

Series : DEW, ZAS, VWO, RSK, ?

The pattern followed in each letter of the terms is :

1st letter : D (-4 letters) = Z (-4 letters) = V (-4 letters) = R (-4 letters) = N

2nd letter : E (-4 letters) = A (-4 letters) = W (-4 letters) = S (-4 letters) = O

3rd letter : W (-4 letters) = S (-4 letters) = O (-4 letters) = K (-4 letters) = G

Thus, missing term = **NOG**

=> Ans - (B)

Question 46

In the following question, select the missing number from the given series.
1, 3, 5, 7, ?

- A 9
- B 11
- C 10
- D 12

Answer: A

Explanation:

'2' is added to all the numbers.

$$1 + 2 = 3$$

$$3 + 2 = 5$$

$$5 + 2 = 7$$

$$7 + 2 = 9$$

=> Ans - (A)

Question 47

In the following question, four groups of three numbers are given. In each group the second and third number are related to the first number by a Logic/Rule/Relation. Three are similar on basis of same Logic/Rule/Relation. Select the odd one out from the given alternatives.

- A (31, 34, 37)
- B (43, 45, 48)
- C (39, 42, 45)

D (7, 10, 13)

Answer: B

Explanation:

The numbers are of the form : $(x, x + 3, x + 6)$

But in the third option, we have $= 43 + 3 = 46 \neq 45$ and $43 + 6 = 49 \neq 48$

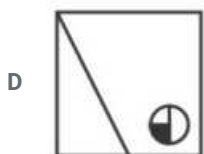
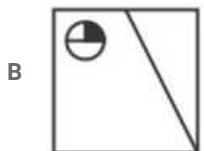
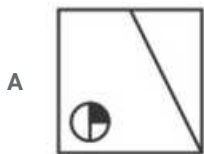
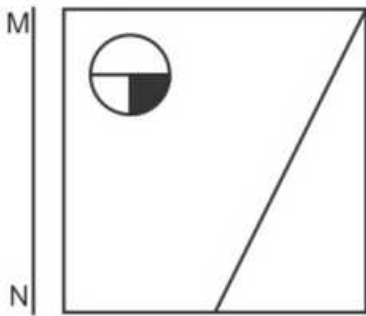
Thus, (43, 45, 48) is the odd one out.

=> Ans - (B)

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Question 48

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



Answer: C

Explanation:

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

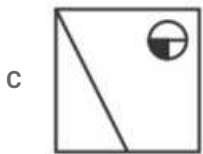
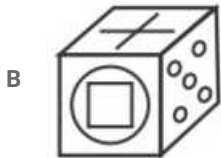
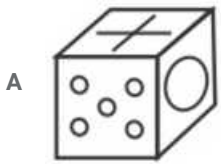
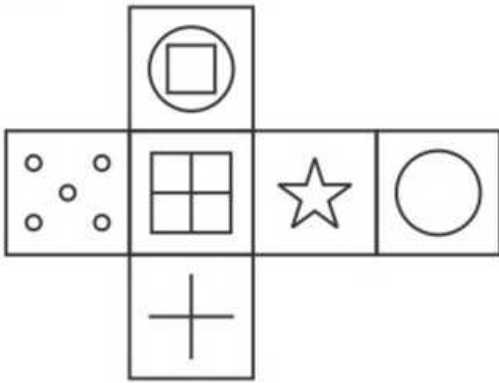
So the diagonal originating from top right will now appear at top left, thus the first two options will be eliminated.

Also, in the question figure, the circle at top left will appear at top right side, hence third option is the right image.

=> Ans - (C)

Question 49

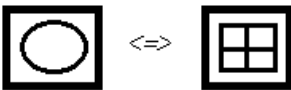
Which of the following cube in the answer figure cannot be made based on the unfolded cube in the question figure?



Answer: B

Explanation:

When we fold the given figure, the square which has a '+' sign inside it will become the base of the cube and the side with only 'circle' sign will become top, and thus they will face each other. Similarly, the sides which will face each other will be :



Since, the opposite sides cannot be adjacent in the cube, thus the cube in the second option is not possible.

=> Ans - (B)

Question 50

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 S to 9. A letter from these matrices can be represented first by its row and next by its column, for example 'A' can be represented by 31, 43 etc and 'U' can be represented by 85, 96 etc. Similarly, you have to identify the set for the word 'SINE'.

Matrix - I

	0	1	2	3	4
0	A	I	L	L	K
1	I	F	B	A	F
2	M	F	H	E	D
3	B	A	L	G	F
4	D	G	C	A	K

Matrix - II

	5	6	7	8	9
5	S	O	T	R	Z
6	R	S	Q	N	Q
7	P	S	U	V	Y
8	U	Z	X	O	N
9	Q	U	Y	W	P

- A 21,99,31,85
- B 12,87,11,78
- C 31,65,14,76
- D 76,10,68,23

Answer: D

Explanation:

- (A) : 21,99,31,85 = FPAU
 - (B) : 12,87,11,78 = BXFV
 - (C) : 31,65,14,76 = ARFS
 - (D) : 76,10,68,23 = **SINE**
- => Ans - (D)

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English

Instructions

For the following questions answer them individually

Question 51

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 has a (a)/ kind eyes (b)/ with a beautiful face. (c)/ No error (d)

- A a
- B b
- C c
- D d

Answer: A

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Question 52

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'.

Experts have predict that (a) within ten years ethanol will emerge (b) as the primary automatic fuel in the world. (c)/ No error (d)

A a

B b

C c

D d

Answer: A

Question 53

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.

Sapna _____ with all of the chocolates.

A have ran

B has been running

C has run off

D was run off

Answer: C

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.

We can never compare the importance _____ the money with the importance of love.

A for

B with

C of

D about

Answer: C

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Question 55

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

Reprove

A Praise

- B Laud
- C Scold
- D Commend

Answer: C

Question 56

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

Jubilant

- A Happy
- B Aggressive
- C Ancient
- D Defeat

Answer: A

Question 57

In the following question, out of the given four alternatives, select the one which is opposite in meaning of the given word.

Secede

- A Quit
- B Resign
- C Withdraw
- D Unite

Answer: D

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Question 58

In the following question, out of the given four alternatives, select the one which is opposite in meaning of the given word.

Cozen

- A Cheat
- B Catch
- C Burn
- D Honest

Answer: D

Question 59

Rearrange the parts of the sentence in correct order.

The orbital motion

P : of the earth

Q : uncertain rates

R : can have

A QPR

B QRP

C RQP

D PRQ

Answer: D

Question 60

A sentence has been given in Active/Passive Voice. Out of the four given alternatives, select the one which best expresses the same sentence in Passive/Active Voice.

She handed him a bag.

A A bag was hand to him.

B A bag is handed by her.

C A bag handed to him by her.

D A bag was handed to him by her.

Answer: D

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Question 61

A sentence has been given in Direct/Indirect Speech. Out of the four given alternatives, select the one which best expresses the same sentence in Indirect/Direct Speech.

The Queen was deeply affected, and said to the old woman, "What can I do for you?"

A The Queen asked the old woman if she could do something for her.

B The Queen was deeply affected and asked the old woman what she could do for her.

C The Queen was deeply affected so she asked the old woman what her majesty could do for her.

D The Queen asked the old woman if she could help her as she was deeply affected.

Answer: B

Question 62

In the following question, a word has been written in four different ways out of which only one is correctly spelt. Select the correctly spelt word.

A Maintenance

- B Maintenance
- C Maintanance
- D Mainteinance

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.

People are now either exposed to the very best of their inner circle and the world, _____ to the worst – articles that look to shock, to provoke rage and put a lens on everything that is wrong _____ the world. Imperceptibly, it goes unsaid that often _____ pieces of 'news' fail to actually provide a constructive solution. The effect of such a disparity _____ to the same effect as news of TV and newspapers – a feeling that what we see does not _____ our lives.

Question 63

and the world, _____ to the worst

- A nor
- B or
- C and
- D but

Answer: B

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Question 64

that is wrong _____ the world.

- A at
- B to
- C with
- D into

Answer: C

Question 65

unsaid that often _____ pieces of 'news'

- A this
- B that
- C the
- D these

Answer: D

Question 66

such a disparity _____ to the same effect.

- A leads
- B lead
- C leading
- D leaded

Answer: A

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Question 67

we see does not _____ our lives.

- A reflects
- B reflective
- C reflection
- D reflect

Answer: D

Instructions

For the following questions answer them individually

Question 68

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

Come to terms with something

- A To become friends with your opponents.
- B Accept that you are a loser even though you have potential.
- C Become unnecessarily depressed.
- D To gradually accept a sad situation.

Answer: D

Question 69

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

Under the weather

- A Become a bit unpredictable like the weather.
- B Slightly unwell or in low spirits.
- C Feel optimistic simply because the weather is good.
- D Feel depressed because you expect bad weather.

Answer: B

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Question 70

In the following question, out of the four alternatives, select the alternative which is the best substitute of the words/sentence.

Relating to or involved in crime

- A Chaste
- B Impeccant
- C Licit
- D Felonious

Answer: D

Question 71

In the following question, out of the four alternatives, select the alternative which is the best substitute of the words/sentence.

A person or thing that is a perfect example of a particular quality or type

- A Epitome
- B Abase
- C Libertine
- D Profligate

Answer: A

Question 72

In the following question, out of the four alternatives, select the alternative which will improve the bracketed part of the sentence. In case no improvement is needed, select "no improvement".

I (had been) a unique case of slow learning.

- A has been
- B am been
- C had being
- D no improvement

Answer: D

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Question 73

In the following question, out of the four alternatives, select the alternative which will improve the bracketed part of the sentence. In case no improvement is needed, select "no improvement".

You (will being surprised) to learn that some leading philosophers have supported immoral views.

- A will be surprised
- B will be surprise
- C will be surprising
- D no improvement

Answer: A

Question 74

The question below consists of a set of labelled sentences. Out of the four options given, select the most logical order of the sentences to form a coherent paragraph.

The smoke rises and
A-chokes my apartment
B-gets trapped in the
C-tree-tops and

- A BAC
- B ACB
- C BCA
- D ABC

Answer: C

Question 75

In the following question, four words are given out of which one word is correctly spelt. Select the correctly spelt word.

- A constituet
- B iliterate
- C conctituet
- D constitute

Answer: D

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General Awareness

Instructions

For the following questions answer them individually

Question 76

An increase in the money supply will cause interest rates to _____.

- A rise
- B fall
- C remain unchanged
- D No option is correct.

Answer: B

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Question 77

For which one of the following items Tiruppur is well known as a huge exporter to many parts of the world?

- A Gems and Jewellery
- B Leather goods
- C Knitted garments
- D Handicrafts

Answer: C

Question 78

What is measured with the Nephometer?

- A volume of rainfall
- B Cloud volume and speed
- C Salinity of Sea
- D All options are correct.

Answer: B

Question 79

The "Loktak" lake is located in which state of India?

- A Meghalaya
- B Manipur
- C Mizoram
- D Tripura

Answer: B

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Question 80

During whose reign did Timur invaded India?

- A Allauddin Khilji
- B Bahlol Lodi
- C Firoz Tughlaq
- D Nasiruddin Mahmud Shah

Answer: D

Question 81

Which of the following movements was headed by Sitaram Raju?

- A Kuka Movement
- B Rampa Movement
- C Pabna Agitation
- D Bardoli Satyagraha

Answer: B

Question 82

In which city is India's oldest European church?

- A Cochin
- B Goa
- C Chennai
- D Kolkata

Answer: A

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Question 83

Which country has been started world's first carbon capture plant in October 2017?

- A China
- B Italy
- C Japan
- D Iceland

Answer: D

Question 84

Who among the following is a recipient of V. Shantaram Lifetime Achievement Award at the Mumbai International Film Festival (MIFF) in year 2018?

- A Dharmendra
- B Mahesh Bhatt
- C Shyam Benegal
- D Gulzar

Answer: C

Question 85

The national Temple of Bangladesh is _____.

- A Jagannath Temple, Pabna
- B Boro Kali Bari Temple, Mymensingh
- C Dhakeshwari Temple, Dhaka
- D Sugandha Shaktipeeth, Barisal

Answer: C

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Question 86

Which of the following group is NOT Dobereiner triads?

- A Li, Na, K
- B N, P, Au
- C Cl, Br, I
- D Ca, Sr, Ba

Answer: B

Question 87

Which of the following is a metal?

- A Sulphur
- B Nitrogen
- C Oxygen
- D No option is correct.

Answer: D

Question 88

Which Schedule of Indian Constitution has provisions relating to disqualification of Member of Parliament on the ground of defection?

- A Seventh Schedule
- B Eighth Schedule
- C Ninth Schedule
- D Tenth Schedule

Answer: D

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Question 89

Election of the President of India and its manner can be amended by _____.

- A Simple Majority of Parliament
- B Special Majority of Parliament
- C Special Majority of Parliament and consent of States
- D No option is correct.

Answer: C

Question 90

Yeast and mushrooms are the examples of organisms of which kingdom?

- A Fungi
- B Monera
- C Plantae
- D Protista

Answer: A

Question 91

In October 2017, which two ministries jointly launched 'SAATHI' (Sustainable and Accelerated Adoption of efficient Textile technologies to help small Industries) initiative?

- A Commerce and Textile Ministries
- B Power and Textile ministries
- C Finance and Textile ministries
- D No option is correct.

Answer: B

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Question 92

What is the name of event caused by the 3200 Phaethon asteroid around 15 December of every year?

- A Geminid Meteor display
- B Perseid Meteor display
- C Draconid Meteor display
- D Lyrid Meteor display

Answer: A

Question 93

On January 3, 2018, RBI initiated 'PCA' against the Allahabad Bank. How many public sector banks have been covered under 'PCA'?

- A 18

B 17

C 11

D 15

Answer: C

Question 94

The Cabinet Committee on Economic Affairs (CCEA) has approved expansion of "Beti Bachao Beti Padhao" yojana for a pan India coverage from 2017 - 2018 to ____.

A 2018-2019

B 2019-2020

C 2020-2021

D 2021-2022

Answer: B

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Question 95

On January 16, 2018 the Supreme Court ruled the attacks and interference on adults opting for inter-caste marriage as 'absolutely illegal' in the petition filed by which NGO in 2010?

A PRATHAM

B Shakti Vahini

C Goonj

D Sammaan

Answer: B

Question 96

Due to an acceleration of 1 m/s^2 the velocity of a body increases from 5 m/s to 10 m/s in a certain period. Find the displacement (in m) of the body in that period.

A 125

B 37.5

C 62.5

D 75

Answer: B

Question 97

As an object falls freely its _____.

A kinetic energy gets converted into potential energy

B potential energy gets converted into kinetic energy

- C momentum gets converted into gravitational force
- D gravitational force gets converted into momentum

Answer: B

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Question 98

Methane contributes towards global warming so it is called a _____ gas.

- A poisonous
- B carcinogenic
- C infectious
- D greenhouse

Answer: D

Question 99

Which of the statements given below are correct?

- A) In 2017 Pro Kabaddi League, Sandeep Narwal played for Bengaluru Bulls.
- B) In 2017, Dani Pedrosa raced in MotoGP for Honda.
- C) In 2017, Glenn Maxwell captained the IPL team Kolkata Knight Riders.

- A Only B
- B Both A and B
- C Both A and C
- D A, B and C

Answer: A

Question 100

In Microsoft Excel , Ctrl+ down arrow key leads to _____ cell movement on spreadsheet.

- A End of column
- B End of row
- C One cell Left
- D One cell right

Answer: A

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