



SSC CHSL 22 Jan 2017 Afternoon Shift

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General Awareness

Instructions

For the following questions answer them individually

Question 1

The Group of Monuments at Hampi is an important centre?

- A Islam
- B Hindu
- C Sikh
- D Christian

Answer: B

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Question 2

Name the first Indian to get Bharat Ratna posthumously.

- A Atal Bihari Vajpayee
- B Lal Bahadur Shastri
- C C K Naidu
- D Mihir Sen

Answer: B

Question 3

Which juice is secreted by the liver?

- A Glucose
- B Iodine
- C Cortisol
- D Bile

Answer: D

Question 4

Ferns belong to which division of plants?

- A Gymnosperms
- B Angiosperms
- C Thallophyta
- D Pteridophyta

Answer: D

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Question 5

Who invented Antibiotics?

- A Joseph Lister
- B William Harvey
- C Robert Knock
- D Alexander Fleming

Answer: D

Question 6

The Chemical formula of Methanol is

- A C₂H₅OH
- B CH₃(OH)₂
- C CH₃OH
- D CH₄OH

Answer: C

Question 7

Why do atoms bond?

- A To reduce potential energy and gain stability
- B To make atoms
- C To increase potential energy and lose stability
- D To increase potential energy and gain stability

Answer: D

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Question 8

A grammar for annotating a document in a way that is syntactically distinguishable from the text, such as HTML, is

- A Command Language
- B Machine Language
- C Markup Language
- D Style Sheet Language

Answer: C

Question 9

Gaur dance is a popular folk dance of

- A Chhattisgarh
- B Tripura
- C Jharkhand
- D Uttarakhand

Answer: A

Question 10

A hand made paper workshop can hire 8 craftsmen by paying them Rs 400 per person per day. The 9th craftsman demands Rs 450 per day. If this craftsman is hired then all other craftsmen must be paid Rs 450. The marginal resource (labour) cost of the 9th craftsman is

- A Rs 50
- B Rs 850
- C Rs 800
- D Rs 100

Answer: B

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Question 11

Unemployment resulting from industrial reorganization, typically due to technological change, rather than fluctuations in supply or demand is called

- A Structural unemployment
- B Frictional unemployment
- C Seasonal unemployment
- D Cyclical unemployment

Answer: A

Question 12

Which of the following types of water is known to be absolutely free from any impurity?

- A Mineral Water
- B Distilled Water
- C Spring Water
- D Boiled Water

Answer: B

Question 13

Milbecycin is used in the eradication of

- A Agricultural Fungus
- B Agricultural Pests
- C Agricultural Herbs
- D Agricultural Weeds

Answer: B

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Question 14

Name the first woman to become Chief Justice of a state High Court in India.

- A Meera Kumari
- B Leila Seth
- C Anju George
- D Purvi Joshi

Answer: B

Question 15

Which is the coldest planet?

- A Uranus
- B Venus
- C Neptune
- D Jupiter

Answer: C

Question 16

What is the capital of Austria?

- A Buenos Aires
- B Rome
- C Vienna
- D Dublin

Answer: C

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Question 17

Chandragupta Maurya was born in

- A 340 BC
- B 563 BC
- C 189 BC
- D 99 BC

Answer: A

Question 18

Jahangir (1605-1627 AD) was the ruler of which dynasty?

- A Nanda
- B Haryanka
- C Maurya
- D Mughal

Answer: D

Question 19

Earth revolves around Sun. Who was the 1st one to present this theory?

- A Albert Einstein
- B Galileo
- C Copernicus
- D Newton

Answer: C

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Question 20

..... is same on every point on a rotating body.

- A Linear velocity
- B Linear momentum
- C Angular torque
- D Angular velocity

Answer: D

Question 21

The path of a projectile is called its

- A Altitude
- B Range
- C Trajectory
- D Flight

Answer: C

Question 22

Bahujan Samaj Party was founded in

- A 1925
- B 1955
- C 1984
- D 2001

Answer: C

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Question 23

In which language, Lok Sabha debates are printed?

- A Hindi
- B English
- C Sanskrit
- D Both Hindi & English

Answer: D

Question 24

Brendon McCullum is a cricketer of which country?

- A South Africa
- B Australia
- C England
- D New Zealand

Answer: D

Question 25

Who wrote the book "The three Musketeers"?

- A EM Forster
- B Gunter Grass

- C Edward Luce
- D Alexandre Dumas

Answer: D

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Mathematics

Instructions

For the following questions answer them individually

Question 26

If the amount received at the end of 2nd and 3rd year at Compound Interest on a certain Principal is Rs 32448 and Rs 33745.92 respectively, what is the rate of interest?

- A 2 percent
- B 8 percent
- C 6 percent
- D 4 percent

Answer: D

Explanation:

Compound interest at the end of 2nd year = Rs. 32,448

Compound interest at the end of 3rd year = Rs. 33,745.92

=> Difference = 33745.92 - 32448 = Rs. 1297.92

This is the interest obtained on the amount of 2nd year.

∴ Rate of interest, $r = \frac{1297.92}{32448} \times 100 = 4\%$

=> Ans - (D)

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Question 27

If $\cot 2A = x$, then x is

- A $2\cot A / (\cot^2 A - 1)$
- B $(\cot^2 A - 1) / 2\cot A$
- C $(\cot^2 A + 1) / 2\cot A$
- D $2\cot A / (\cot^2 A + 1)$

Answer: B

Explanation:

Expression : $\cot(2A)$

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

∴ $\cos(2A) = \cos^2 A - \sin^2 A$ and $\sin(2A) = 2\sin A \cos A$

$$\begin{aligned} &= \frac{\cos^2 A - \sin^2 A}{2 \sin A \cdot \cos A} \end{aligned}$$

Dividing both numerator and denominator by $(\sin^2 A)$

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

$$= (\cot^2 A - 1) \div (2 \frac{\cos A}{\sin A})$$

$$= \frac{\cot^2 A - 1}{2 \cot A}$$

=> Ans - (B)

Question 28

The diagonal of a square equals the side of an equilateral triangle. If the area of the square is $6\sqrt{3}$ sq cm, what is the area of the equilateral triangle?

A $9\sqrt{3}$ sq cm

B 9 sq cm

C $9\sqrt{2}$ sq cm

D 12 sq cm

Answer: B

Explanation:

Let the side of square = s cm and diagonal = d cm

$$\Rightarrow \text{Area of square} = (s)^2 = 6\sqrt{3} \text{-----(i)}$$

$$\text{In right triangle of the square, } \Rightarrow (s)^2 + (s)^2 = (d)^2$$

Substituting value of s^2 from equation (i)

$$\Rightarrow (d)^2 = 6\sqrt{3} + 6\sqrt{3} = 12\sqrt{3} \text{-----(ii)}$$

Side of equilateral triangle = Diagonal of square = d cm

$$\therefore \text{Area of equilateral triangle} = \frac{\sqrt{3}}{4} d^2$$

Substituting value of d^2 from (ii), we get :

$$= \frac{\sqrt{3}}{4} \times 12\sqrt{3} = \frac{36}{4} = 9 \text{cm}^2$$

=> Ans - (B)

Question 29

What is the value of $\sec 30^\circ + \cot 30^\circ$?

A $(\sqrt{61})/\sqrt{2}$

B $\sqrt{3}+2$

C $5/\sqrt{3}$

D $(\sqrt{32}-\sqrt{2})/\sqrt{6}$

Answer: C

Explanation:

Expression : $\sec 30^\circ + \cot 30^\circ$

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

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

$$= \frac{5}{\sqrt{3}}$$

=> Ans - (C)

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Question 30

Find $(61 + 62 + 63 + \dots + 110) = ?$

- A 4275
- B 8550
- C 12825
- D 17100

Answer: A

Explanation:

Expression : $(61 + 62 + 63 + \dots + 110)$

This is an arithmetic progression with first term, $a = 61$, last term, $l = 110$ and common difference, $d = 1$

Let number of terms = n

Last term in an A.P. = $a + (n - 1)d = 110$

$$\Rightarrow 61 + (n - 1)(1) = 110$$

$$\Rightarrow n - 1 = 110 - 61 = 49$$

$$\Rightarrow n = 49 + 1 = 50$$

$$\therefore \text{Sum of A.P.} = \frac{n}{2}(a + l)$$

$$= \frac{50}{2}(61 + 110)$$

$$= 25 \times 171 = 4275$$

=> Ans - (A)

Question 31

Volume of a cube is 512 cubic cm, find its total surface area? (Take $\pi = 22/7$)

- A 768 sq cms
- B 192 sq cms
- C 384 sq cms
- D 576 sq cms

Answer: C

Explanation:

Let side of cube = a cm

$$\Rightarrow \text{Volume of cube} = (a)^3 = 512$$

$$\Rightarrow a = \sqrt[3]{512} = 8 \text{ cm}$$

$$\therefore \text{Total surface area of cube} = 6a^2$$

$$= 6(8)^2 = 6 \times 64 = 384 \text{ cm}^2$$

=> Ans - (C)

Question 32

The costs of daily ticket of local train is Rs 160 and Monthly Pass costs Rs 2912. If I buy the Monthly Pass and travel for 26 days in a month then I save?

- A 25 percent
- B 22 percent
- C 18 percent
- D 30 percent

Answer: D

Explanation:

Train ticket cost for 1 day = Rs. 160

=> Cost for 26 days = $26 \times 160 = \text{Rs. } 4160$

Cost of monthly pass = Rs. 2912

=> Money saved = $4160 - 2912 = \text{Rs. } 1248$

\therefore Required % = $\frac{1248}{4160} \times 100 = 30\%$

=> Ans - (D)

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Question 33

Prahlad has done 1/3rd of a job in 30 days, Sarfaraz completes the rest of the job in 90 days. In how many days can they together do the job?

- A 27 days
- B 18 days
- C 54 days
- D 36 days

Answer: C

Explanation:

Let total work to be done = 90 units

Work done by Prahlad in 30 days = $\frac{1}{3} \times 90 = 30$ units

Prahlad's efficiency = $\frac{30}{30} = 1$ unit/day

Remaining work = $90 - 30 = 60$ units

Sarfaraz completes 60 units in 90 days

=> Sarfaraz's efficiency = $\frac{60}{90} = \frac{2}{3}$ units/day

(Prahlad + Sarfaraz)'s 1 day's work = $1 + \frac{2}{3} = \frac{5}{3}$ units/day

\therefore Time taken by them together to do the job = $\frac{90}{\frac{5}{3}}$

= $90 \times \frac{3}{5} = 54$ days

=> Ans - (C)

Question 34

If $2x - 3 \leq 5 + x$ and $5 - x < 1 + 5x$; then x can take which of the following values?

- A -1
- B 1
- C -9
- D 9

Answer: B

Explanation:

Expression 1 : $2x - 3 \leq 5 + x$

$$\Rightarrow 2x - x \leq 5 + 3$$

$$\Rightarrow x \leq 8 \text{ -----(i)}$$

Expression 2 : $5 - x < 1 + 5x$

$$\Rightarrow 5x + x > 5 - 1$$

$$\Rightarrow 6x > 4$$

$$\Rightarrow x > \frac{2}{3} \text{ -----(ii)}$$

Combining inequalities (i) and (ii), we get : $\frac{2}{3} < x \leq 8$

The only value that x can take among the options = 1

=> Ans - (B)

Question 35

The price of an article is cut by 9%, to restore to its original value, the new price must be increased by

- A 9 percent
- B 8.83 percent
- C 9.89 percent
- D 6.25 percent

Answer: C

Explanation:

Let the original price of the article = Rs. 100

$$\text{If the price is cut by 9\%, } \Rightarrow \text{New price} = \frac{100-9}{100} \times 100 = \text{Rs.91}$$

$$\text{To restore to its original value the new price must be increased by} = \frac{100-91}{91} \times 100$$

$$= \frac{900}{91} \approx 9.89\%$$

=> Ans - (C)

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Question 36

If $13A = 11B = 8C$, find $A : B : C$

- A 143:104:88
- B 104:88:143
- C 88:104:143
- D 8:11:13

Answer: C

Explanation:

$$\text{Let } 13A = 11B = 8C = k$$

$$\Rightarrow A = \frac{k}{13}, B = \frac{k}{11}, C = \frac{k}{8}$$

$$\Rightarrow \text{Ratio of } A : B : C = \frac{k}{13} : \frac{k}{11} : \frac{k}{8}$$

$$= \frac{1}{13} : \frac{1}{11} : \frac{1}{8}$$

L.C.M. of 8,11 and 13 = 1144, thus multiplying by 1144, we get :

$$= \frac{1144}{13} : \frac{1144}{11} : \frac{1144}{8}$$

$$= 88 : 104 : 143$$

\Rightarrow Ans - (C)

Question 37

A shopkeeper by selling 21 Nike shoes, earns a profit equal to the selling price of 5 Nike shoes. His profit percentage is

- A 31.25 percent
- B 23.8 percent
- C 47.6 percent
- D 16.35 percent

Answer: A

Explanation:

Let cost price of a shoe = $Rs.x$

Selling price of a shoe = $Rs.y$

\Rightarrow Selling price of 5 shoes = $Rs.5y$

According to ques, $\Rightarrow 21(y - x) = 5y$

$$\Rightarrow 21y - 21x = 5y$$

$$\Rightarrow 16y = 21x$$

$$\Rightarrow \frac{x}{y} = \frac{16}{21}$$

Let Cost price, $x = 16$ and selling price, $y = 21$

$$\therefore \text{Profit \%} = \frac{y-x}{x} \times 100$$

$$= \frac{21-16}{16} \times 100$$

$$= \frac{125}{4} = 31.25\%$$

\Rightarrow Ans - (A)

Question 38

What is the perimeter of the sector whose central angle is 60° and radius of the circle is 21 cm?

- A 128 cm
- B 96 cm
- C 64 cm
- D 32 cm

Answer: C

Explanation:

Central angle = $\theta = 60^\circ$ and radius = $r = 21$ cm

Perimeter of sector = length of arc + $(2 \times \text{radius})$

$$\text{Length of arc} = \frac{\theta}{360} \times 2\pi r$$

$$= \frac{60}{360} \times 2 \times \frac{22}{7} \times 21$$

$$= \frac{1}{6} \times 44 \times 3 = \frac{44}{2} = 22 \text{ cm}$$

$$\therefore \text{Perimeter of sector} = 22 + (2 \times 21)$$

$$= 22 + 42 = 64 \text{ cm}$$

=> Ans - (C)

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Question 39

Which of the following quadratic equations has real roots?

- A $3x^2 - 5x + 2 = 0$
- B $3x^2 - 4x + 2 = 0$
- C $4x^2 - 3x + 2 = 0$
- D $5x^2 - 2x + 2 = 0$

Answer: A

Explanation:

A quadratic equation : $ax^2 + bx + c = 0$ has real roots iff Discriminant, $D = b^2 - 4ac \geq 0$

(A) : $3x^2 - 5x + 2 = 0$

$$\Rightarrow D = (-5)^2 - 4(3)(2) = 25 - 24 = 1$$

(B) : $3x^2 - 4x + 2 = 0$

$$\Rightarrow D = (-4)^2 - 4(3)(2) = 16 - 24 = -8$$

(C) : $4x^2 - 3x + 2 = 0$

$$\Rightarrow D = (-3)^2 - 4(4)(2) = 9 - 32 = -23$$

(D) : $5x^2 - 2x + 2 = 0$

$$\Rightarrow D = (-2)^2 - 4(5)(2) = 4 - 40 = -36$$

Thus, the equation : $3x^2 - 5x + 2 = 0$ has real roots.

Question 40

Which of the following is correct?

- A $(3x - 2y)^2 = 9x^2 - 12xy + 4y^2$
- B $(3x - 2y)^2 = 9x^2 - 6xy + 4y^2$
- C $(3x + 2y)^2 = 9x^2 - 12xy + 4y^2$
- D $(3x + 2y)^2 = 9x^2 - 6xy + 4y^2$

Answer: A

Explanation:

Expression : $(3x - 2y)^2$
 $= (3x)^2 + (-2y)^2 + 2(3x)(-2y)$
 $= 9x^2 + 4y^2 - 12xy$
 $\Rightarrow (3x - 2y)^2$
 $= (3x)^2 + (2y)^2 + 2(3x)(2y)$
 $= 9x^2 + 4y^2 + 12xy$
 \Rightarrow Ans - (A)

Question 41

The sum of the parallel sides of a trapezium is 12.4 cm. If the distance between the parallel sides is 3.5 cm, what is the area of this trapezium?

- A 43.4 sq cm
- B 86.8 sq cm
- C 130.2 sq cm
- D 21.7 sq cm

Answer: D

Explanation:

Sum of parallel sides of trapezium = 12.4 cm
 Height of trapezium = 3.5 cm
 Area of trapezium = $\frac{1}{2} \times (\text{sum of parallel sides}) \times \text{height}$
 $= \frac{1}{2} \times 12.4 \times 3.5$
 $= 6.2 \times 3.5 = 21.7 \text{ cm}^2$
 \Rightarrow Ans - (D)

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Question 42

Of the four numbers whose average is 91, the first is $\frac{3}{10}$ times the sum of other three. The first number is:

- A 126
- B 56
- C 168
- D 84

Answer: D

Explanation:

Let the four numbers be w, x, y, z

$$\text{Average of 4 numbers} = \frac{(w+x+y+z)}{4} = 91$$

$$\Rightarrow w + x + y + z = 91 \times 4 = 364$$

$$\text{According to ques, } \Rightarrow w = \frac{3}{10} \times (x + y + z)$$

$$\Rightarrow w = \frac{3}{10} \times (364 - w)$$

$$\Rightarrow 10w = 1092 - 3w$$

$$\Rightarrow 10w + 3w = 13w = 1092$$

$$\Rightarrow w = \frac{1092}{13} = 84$$

\Rightarrow Ans - (D)

Question 43

If $4x + 3y = 11$ and $3x + 2y = 8$, then (x,y) is

A 2, 0

B 1, 6

C 2, 1

D 5, 6

Answer: C

Explanation:

$$\text{Equation 1 : } (4x + 3y = 11) \times 2$$

$$\text{Equation 2 : } (3x + 2y = 8) \times 3$$

Multiplying equation (i) by 2 and equation (ii) by 3, we get :

$$\Rightarrow 8x + 6y = 22 \text{ -----(iii)}$$

$$\text{and } 9x + 6y = 24 \text{ -----(iv)}$$

$$\text{Subtracting equation (iii) from (iv), } \Rightarrow (9x - 8x) = (24 - 22)$$

$$\Rightarrow x = 2$$

$$\text{Substituting it in equation (i), } \Rightarrow 3y = 11 - 4(2)$$

$$\Rightarrow 3y = 11 - 8 = 3$$

$$\Rightarrow y = \frac{3}{3} = 1$$

$$\therefore (x, y) = (2, 1)$$

\Rightarrow Ans - (C)

Question 44

What should be the average speed of a car to cover a distance of 189 km in 3.5 hours?

A 15 m/s

B 54 m/s

C 27 m/s

D 30 m/s

Answer: A

Explanation:

The car covers 189 km in 3.5 hours

$$\text{Speed of car (in km/h)} = \frac{189}{3.5} = 54 \text{ km/hr}$$

$$\Rightarrow \text{Speed of car (in m/s)} = 54 \times \frac{5}{18}$$

$$= 3 \times 5 = 15 \text{ m/s}$$

\(\Rightarrow\) Ans - (A)

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Question 45

If $\sec A / (\sec A - 1) + \sec A / (\sec A + 1) = x$, then x is

A $2\operatorname{cosec}^2 A$

B $2\sec^2 A$

C $2\operatorname{cosec} A$

D $2\sec A$

Answer: A

Explanation:

$$\text{Expression : } \frac{\sec A}{\sec A - 1} + \frac{\sec A}{\sec A + 1}$$

$$= \left[\frac{1}{\cos A} \div (\cos A - 1) \right] + \left[\frac{1}{\cos A} \div (\cos A + 1) \right]$$

$$= \left[\frac{1}{\cos A} \div \left(\frac{1 - \cos A}{\cos A} \right) \right] + \left[\frac{1}{\cos A} \div \left(\frac{1 + \cos A}{\cos A} \right) \right]$$

$$= \left[\frac{1}{\cos A} \times \frac{\cos A}{1 - \cos A} \right] + \left[\frac{1}{\cos A} \times \frac{\cos A}{1 + \cos A} \right]$$

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

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

$$= \frac{2}{\sin^2 A} = 2\operatorname{cosec}^2 A$$

\(\Rightarrow\) Ans - (A)

Question 46

What is the slope of the line perpendicular to the line passing through the points (6,3) and (2,7)?

A 1

B -1

C 1/2

D 1/2

Answer: A

Explanation:

Slope of line passing through points (6,3) and (2,7)

$$= \frac{7-3}{2-6} = \frac{4}{-4} = -1$$

Product of slopes of two perpendicular lines is -1

=> Slope of the line perpendicular to the line having slope -1 = 1

=> Ans - (A)

Question 47

Refer the below data table and answer the following question.

	Number of Employees	Annual Salary	Bonus as percent of annual salary
Manager	3	60	50%
Executive	8	20	30%
Trainee	3	4	10%

What is the average bonus (in rupees) ?

A 13920004

B 280000

C 364000

D 994286

Answer: D

Explanation:

$$\text{Total bonus of managers (in lakh)} = 3 \times 60 \times \frac{50}{100} = 90 \text{ lakhs}$$

$$\text{Total bonus of executive (in lakh)} = 8 \times 20 \times \frac{30}{100} = 48 \text{ lakhs}$$

$$\text{Total bonus of trainee (in lakh)} = 3 \times 4 \times \frac{10}{100} = 1.2 \text{ lakhs}$$

$$\Rightarrow \text{Average bonus in rupees} = \frac{(90+48+1.2)}{(3+8+3)}$$

$$= \frac{139.2}{14} = 9.94286 \text{ lakhs} = 9,94,286$$

=> Ans - (D)

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Question 48

Refer the below data table and answer the following question

	2011	2012	2013	2014	2015
Company A	5000	4000	2000	1000	3000
Company B	3000	1000	2000	4000	3000
Company C	3000	5000	1000	3000	2000

For which of the following pairs of years the total exports from the three Companies together are equal? (Note: Figures given are in lakh rupees)

A 2011 & 2013

B 2013 & 2015

C 2011 & 2012

D 2014 & 2015

Answer: D

Explanation:

Total exports from the three companies together in :

$$2011 = 5000 + 3000 + 3000 = 11000$$

$$2012 = 4000 + 1000 + 5000 = 10000$$

$$2013 = 2000 + 2000 + 1000 = 5000$$

$$2014 = 1000 + 4000 + 3000 = 8000$$

$$2015 = 3000 + 3000 + 2000 = 8000$$

Clearly, total exports in 2014 and 2015 are equal to 8000

=> Ans - (D)

Question 49

Refer the below data table and answer the following question

Year	Profit or Loss
2011	-20
2012	10
2013	5
2014	-15
2015	15

What was the total profit or loss of the company in last 5 years ?

- A Loss of Rs 15 crores
- B Loss of Rs 5 crores
- C Profit of Rs 5 crores
- D Profit of Rs 15 crores

Answer: B

Explanation:

Total profit or loss in Rs. crore in last 5 years

$$= -20 + 10 + 5 - 15 + 15$$

$$= 15 - 20 = -5$$

Since, it is negative, thus loss of Rs. 5 crore

=> Ans - (B)

Question 50

Refer the below data table and answer the following question

India's Exports in 2015	Value in millions US\$
Jewellery	650
Software	725
Cotton	750
Steel	825
Electronics	650

Steel was what percent of total exports ?

- A 22.92 percent
- B 25.42 percent
- C 27.92 percent

D 20.42 percent

Answer: A

Explanation:

Value in millions of Steel = 825

Total exports = 650 + 725 + 750 + 825 + 650 = 3600

=> % of Steel in total exports = $\frac{825}{3600} \times 100$

= $\frac{825}{36} = 22.916 \approx 22.92\%$

=> Ans - (A)

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Reasoning

Instructions

For the following questions answer them individually

Question 51

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

Taj Mahal : Agra :: Old Fort : ?

A Delhi

B Hyderabad

C Jaipur

D Jodhpur

Answer: A

Explanation:

Expression = Taj Mahal : Agra :: Old Fort : ?

Taj Mahal is situated in Agra, similarly Old Fort is situated in *Delhi*.

=> Ans - (A)

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Question 52

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

MYANMAR : NZBNLZQ :: BRITAIN : ?

A CSJTHZM

B CSJTZHM

C CSJTMZH

D CSJMTZH

Answer: B

Explanation:

Expression = MYANMAR : NZBNLZQ :: BRITAIN : ?

The pattern followed is :

M	Y	A	N	M	A	R
(+1)	(+1)	(+1)	(+0)	(-1)	(-1)	(-1)
N	Z	B	N	L	Z	Q

Similarly, for BRITAIN :

B	R	I	T	A	I	N
(+1)	(+1)	(+1)	(+0)	(-1)	(-1)	(-1)
C	S	J	T	Z	H	M

=> Ans - (B)

Question 53

Select the related word/letters/number from the given alternatives. EM : JZ :: KL : ?

A VX

B VY

C UX

D TU

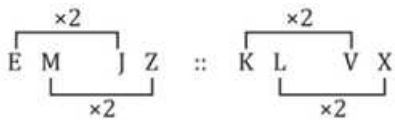
Answer: A

Explanation:

Expression = EM : JZ :: KL : ?

The pattern followed is that when numerical values are assigned to the alphabets, they are multiplied by 2.

Eg :- E = 5 \equiv 5 \times 2 = 10 \equiv J



Thus, KL : VX

=> Ans - (A)

Question 54

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

79 : 63 :: 54 : ?

A 42

B 46

C 64

D 20

Answer: D

Explanation:

Expression = 79 : 63 :: 54 : ?

The second number is equal to the product of digits of first number.

Eg :- 7 \times 9 = 63

Similarly, 5 \times 4 = 20

=> Ans - (D)

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Question 55

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

- A Border Security Force
- B Central Reserve Police Force
- C IndoTibetan Border Police Force
- D Indian Air Force

Answer: D

Explanation:

Except Indian Air Force other three are central Armed police force, hence it is the odd one out.

=> Ans - (D)

Question 56

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

- A JQ
- B HS
- C BX
- D GT

Answer: C

Explanation:

Except BX other three are pair of corresponding opposite word, hence it is the odd one out.

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
↓	↓		↓
Z	Y	X	W	V	U	T	S	R	Q	P	O	N	M	L	K	J	I	H	G	F	E	D	C	B	A

=> Ans - (C)

Question 57

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

- A 8179
- B 7147
- C 8135
- D 9113

Answer: D

Explanation:

The middle term is sum of first and last digits, but $9 + 3 \neq 11$, hence 9113 is the odd one out.

=> Ans - (D)

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Question 58

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

- A 4313
- B 5434
- C 8723
- D 3674

Answer: A

Explanation:

Sum of digits in 4313 is an odd number and in rest three it is an even number, hence it is the odd one out.

=> Ans - (A)

Question 59

A series is given with one term missing. Choose the correct alternative from the given ones that will complete the series. Hindi, ?, Telugu, Marathi, Tamil.

- A English
- B Bengali
- C French
- D German

Answer: B

Explanation:

Series of Indian regional language is given.

= Hindi, Bengali, Telugu, Marathi

=> Ans - (B)

Question 60

A series is given with one term missing. Choose the correct alternative from the given ones that will complete the series. AT, CR, FO, JK, ?

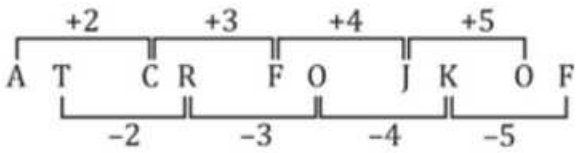
- A PE
- B QD
- C NM
- D OF

Answer: D

Explanation:

Expression : AT, CR, FO, JK, ?

The pattern followed is :



Thus, missing term = OF

=> Ans - (D)

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Question 61

A series is given with one term missing. Choose the correct alternative from the given ones that will complete the series. BC, OP, DE, QR, ?

A ST

B FG

C HI

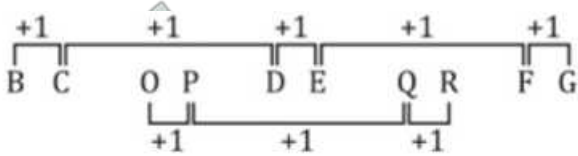
D UV

Answer: B

Explanation:

Expression : BC, OP, DE, QR, ?

Consecutive pairs of English alphabets are given in alternate terms.



Thus, missing term = FG

=> Ans - (B)

Question 62

A series is given with one term missing. Choose the correct alternative from the given ones that will complete the series. 250, 370, 394, 400, ?

A 401

B 404

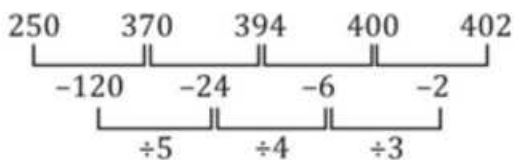
C 402

D 406

Answer: C

Explanation:

The pattern followed is :



Thus, missing term = 402

=> Ans - (C)

Question 63

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.

Statements:

(I) All flowers are stems.

(II) All stems are roots.

Conclusion:

(I) All roots are flowers.

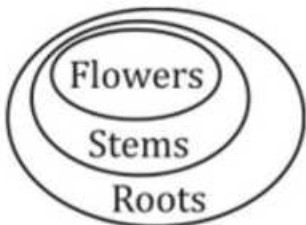
(II) All stems are flowers.

- A Conclusion I follows
- B Conclusion II follows
- C Neither I nor II follows
- D Both I and II follows

Answer: C

Explanation:

The venn diagram for above statements is :



Conclusion:

- (I) All roots are flowers = false
- (II) All stems are flowers = false

Thus, neither I nor II follows

=> Ans - (C)

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Question 64

Karan, Arjun, Preeti, Priya and Ashish are travelling in a car. Three years ago, the average age of Arjun, Preeti and Priya was 42 years. If the present age of Karan is 65 years and the present average age of all five is 50 years, then what is the present age of Ashish?

- A 50 years
- B 60 years
- C 70 years
- D 80 years

Answer: A

Explanation:

Let Ashish's present age = x years

Average age of Arjun, Preeti and Priya 3 years ago = 42 years

=> Sum of present ages of Arjun, Preeti and Priya = $(42 + 3) \times 3 = 45 \times 3 = 135$

Present age of Karan = 65 years

Average present age of all five persons = 50 years

=> Total age of five persons = $50 \times 5 = 250$ years

=> $x + 65 + 135 = 250$

=> $x = 250 - 200 = 50$ years

=> Ans - (A)

Question 65

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

- i. Ramification
- ii. Rampant
- iii. Rapport
- iv. Radical

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

Answer: C

Explanation:

As per the order of dictionary :

= Radical -> Ramification -> Rampant -> Rapport

≡ iv, i, ii, iii

=> Ans - (C)

Question 66

In a certain code language, "TEACHER" is written as "6427341" and "MAN" is written as "825". How is "MERCHANT" written in that code language ?

- A 84172563
B 84172365
C 84173256
D 84132756

Answer: C

Explanation:

The codes for each letter is given :

- M -> 8
E -> 4
R -> 1
C -> 7
H -> 3
A -> 2
N -> 5
T -> 6

Thus, MERCHANT : 84173256

=> Ans - (C)

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Question 67

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

5	7	6
2	4	7
129	359	?

- A 526
- B 652
- C 265
- D 256

Answer: C

Explanation:

In each column, the number at the end is obtained by adding the cube of first number and square of second number.

$$\text{Eg :- } 5^3 + 2^2 = 125 + 4 = 129$$

$$7^3 + 4^2 = 343 + 16 = 359$$

$$\text{Similarly, } 6^3 + 7^2 = 216 + 49 = 265$$

=> Ans - (C)

Question 68

If "#" means "subtraction", "&" means "division", "@" means "addition" and "%" means "multiplication", then $8442 \& 9 \# 7 \% 6 @ 4 = ?$

- A 912
- B 900
- C 938
- D 918

Answer: B

Explanation:

Expression : $8442 \& 9 \# 7 \% 6 @ 4 = ?$

$$\equiv 8442 \div 9 - 7 \times 6 + 4$$

$$= \left(\frac{8442}{9} \right) - (7 \times 6) + 4$$

$$= 938 - 42 + 4 = 900$$

=> Ans - (B)

Question 69

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

- A RBATRB

B RATBRB

C RTBARB

D RTABRB

Answer: D

Explanation:

The pattern followed is that in groups of 6, the term 'RABBIT' is repeated.

= RABBIT RABBIT RABBIT

=> Ans - (D)

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Question 70

A boy leaves his school and travels 20 km towards the north. He takes a left turn and travels 30 km, then he turns towards the east direction and travels 50 km further. Finally, he turns to his right and travels 20 km more. Which direction is he now with respect to his school?

A SouthEast

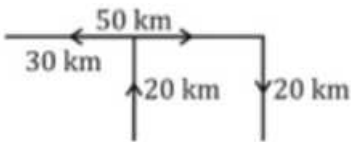
B West

C East

D NorthEast

Answer: C

Explanation:



A boy leaves his school and travels 20 km towards the north. He takes a left turn and travels 30 km towards west, then he turns towards the east direction and travels 50 km further (i.e. again covering the previous 30 km). Finally, he turns to his right and travels 20 km towards south.

Thus, he is in east direction from his school.

=> Ans - (C)

Question 71

Word A 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, F can be represented by 55. 13, etc., and R can be represented by 76, 30, etc. Similarly, you have to identify the set for the word PHONE.

Matrix-I

	0	1	2	3	4
0	G	N	G	N	H
1	H	G	N	F	P
2	G	H	Y	P	N
3	R	G	H	S	N
4	H	N	P	B	L

Matrix-II

	5	6	7	8	9
5	F	E	L	R	P
6	O	N	R	E	O
7	O	R	P	J	F
8	R	P	W	O	Y
9	O	V	E	P	E

- A 98, 10, 58, 12, 99
- B 59, 04, 95, 01, 56
- C 77, 21, 65, 33, 68
- D 86, 40, 75, 13, 97

Answer: B

Explanation:

- (A) : 98, 10, 58, 12, 99 = PHRNE
- (B) : 59, 04, 95, 01, 56 = **PHONE**
- (C) : 77, 21, 65, 33, 68 = PHOSE
- (D) : 86, 40, 75, 13, 97 = PHOFE

=> Ans - (B)

Question 72

Introducing a girl, Pooja says, "Her mother's son is the nephew of my father". How is the girl related to Pooja?

- A Niece
- B Daughter
- C Sister
- D Cousin

Answer: D

Explanation:

The girl's mother's son = girl's brother

Now, the girl's brother is nephew of Pooja's father, => Pooja and the girl's brother are cousins.

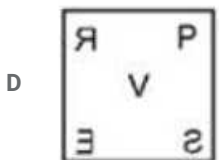
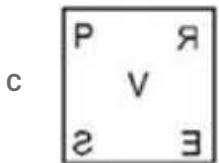
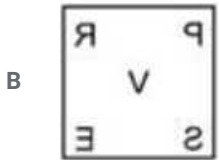
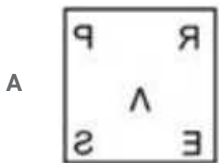
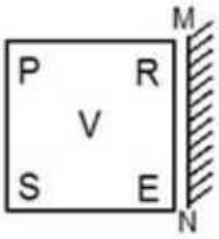
Thus, Pooja and the girl are also cousins.

=> Ans - (D)

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Question 73

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:

If a mirror is placed on the line MN,

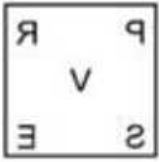
The facing of the figure to the left and right direction changes to opposite direction in mirror image (right facing changes to left and vice versa). There won't be change in shape of the figure in the mirror image.

The letter S on the bottom left will be on the bottom right in the mirror image and the mirror image of the letter S is shown in below figure

The letter E on the bottom right will be on the bottom left in the mirror image and the mirror image of the letter E is shown in below figure

The letter P on the top left will be on the top right in the mirror image and the mirror image of the letter P is shown in below figure

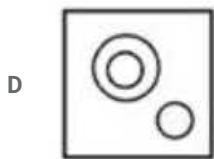
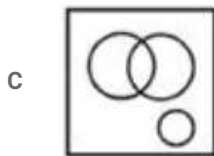
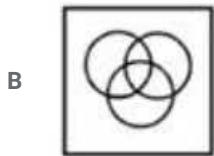
The letter R on the top right will be on the top left in the mirror image and the mirror image of the letter R is shown in below figure



Hence, the correct answer is Option B

Question 74

Identify the diagram that best represents the relationship among the given classes. Brass, Bronze, Alloy

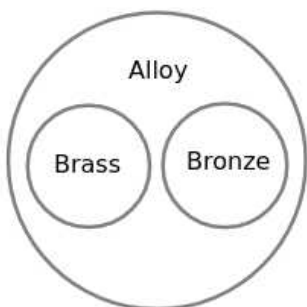


Answer: A

Explanation:

Brass and Bronze are different materials where both of them are alloys

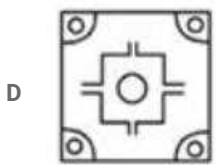
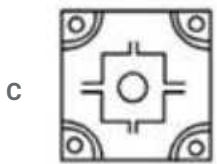
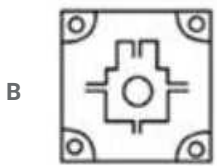
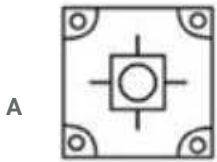
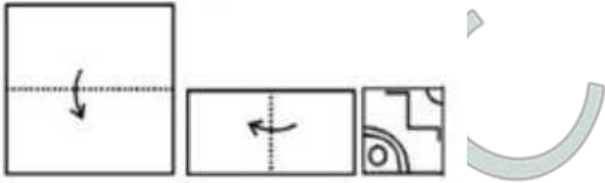
∴ The diagram that best represents the relationship between them is



Hence, the correct answer is Option A

Question 75

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



Answer: C

Explanation:

When the paper is unfolded, the pattern of cutting will be similar in the four parts of the paper.

When the paper is unfolded first to the right, similar pattern will appear on the right part.

When the paper is unfolded again to the top, similar pattern will appear at the top part like the bottom part.

∴ When the paper is opened it will appear as shown below



Hence, the correct answer is Option C

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English

Instructions

For the following questions answer them individually

Question 76

Rearrange the parts of the sentence in correct order.

In some seats, the
Pwinning margin, thereby
Qvotes for NOTA have been larger than the
Rdetermining the result

- A RPQ
- B QRP
- C QPR
- D PRQ

Answer: C

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Question 77

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

- A A very fat man
- B When a big person is finally trapped
- C An obvious problem that no one wants to discuss
- D One person who is strong enough to defeat everybody else

Answer: C

Question 78

Select the synonym of
redemption

- A forfeit
- B atonement
- C retribution
- D penalty

Answer: B

Question 79

Improve the bracketed part of the sentence.

Ajay, who (was studying) architecture at present, hopes to go to Australia after graduation.

- A studies
- B has been studying
- C is studying

D no improvement

Answer: C

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Question 80

In the following question, out of the four alternatives, select the alternative which is the best substitute of the phrase. to imply or suggest an idea in addition to the literal meaning

- A to nub
- B to connote
- C to malign
- D to purport

Answer: B

Question 81

Select the word with the correct spelling.

- A encroch
- B stingiely
- C capittate
- D placated

Answer: D

Question 82

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. They have published the names of all the successful candidates.

- A The candidates who have succeeded their names they had published.
- B The names of all the successful candidates have been published by them.
- C The candidates who have succeeded their names have been published by them.
- D The names of all the successful candidates were published by them.

Answer: B

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Question 83

Select the word with the correct spelling.

- A chastise
- B adellaide

C paarlance

D boutique

Answer: A

Question 84

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'.

To improve your vocabulary(A)/one thing that you should do (B)/is to read Times of India(C)/No error(D)

A A

B B

C C

D D

Answer: C

Question 85

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'.

The professor informed that (A)/they had all done(B)/very badly.(C)/No error(D)

A A

B B

C C

D D

Answer: D

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Question 86

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

A The universe was created out of nothing

B To do something from the beginning

C To build something out of nothing

D One scratch if neglected will destroy the structure eventually

Answer: B

Question 87

In the following question, out of the four alternatives, select the alternative which is the best substitute of the phrase. to resolve a sentence into its component parts and describe their syntactic roles

A to dissect

- B to anatomize
- C to parse
- D to synthesize

Answer: C

Question 88

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.

The primary objective of a socialist government is tothe miseries of the poor.

- A mollify
- B mitigate
- C soothe
- D abet

Answer: B

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Question 89

Rearrange the parts of the sentence in correct order:

They not only

Ptech activists on to the streets

Qran an innovative and creative campaign, but

Rwere also able to bring

- A RQP
- B RPQ
- C PRQ
- D QRP

Answer: D

Question 90

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.

They said, "We are starting now."

- A They said that we were starting then.
- B They said that they were starting now.
- C They said that they would be starting now.
- D They said that they were starting then.

Answer: D

Question 91

Select the synonym of haste

- A soon
- B eventually
- C later
- D never

Answer: A

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Question 92

Improve the bracketed part of the sentence

The Saranda forest is infested (with) King Cobras.

- A of
- B in
- C from
- D no improvement

Answer: D

Question 93

Select the antonym of provision

- A removal
- B cater
- C plan
- D stock

Answer: A

Question 94

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.

The unfortunate family could do nothing, butthe death of their sole bread winner.

- A wail
- B languish
- C mourn
- D repent

Answer: C

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Question 95

Select the antonym of
sortie

- A raid
- B assault
- C sally
- D retreat

Answer: D

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.

The committeecriminal justice reforms recommended a threefold strategy to arrest the drift and to prevent total disaster. First, the law, substantive and procedural, requires a freshlook based on changes in society and economypriorities in governance. The guidingin the reform process should be decriminalisation whereverand diversion, reserving the criminal justice system mainly to deal with real "hard" crimes.

Question 96

The committee criminal justice reforms

- A of
- B on
- C for
- D upon

Answer: B

Question 97

requires a fresh look based on changes

- A full
- B complete
- C through
- D comprehensive

Answer: D

Question 98

economy priorities in governance.

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- A as well as
- B and
- C and also
- D plus

Answer: A

Question 99

The guiding in the reform

- A law
- B rule
- C principle
- D path

Answer: C

Question 100

process should be decriminalisation wherever and diversion

- A possible
- B allowed
- C imaginable
- D viable

Answer: A

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