SSC CHSL 15 Jan 2017 Morning Shift

General Awareness

Instructions
For the following questions answer them individually

Question 1

What is the mascot of Linux Operating System?

A Bear

B Penguin

C Lion

D Whale

Answer: B

Question 2

Dynamite was invented by?

A Jean-Antoine Nollet

B Alfred Nobel

C Joseph Nicephore Niepce

D Ted Nelson

Answer: B

Question 3

The instrument used to measure Blood Pressure is

A Sphygmomano-meter

B Thermometer

C ECG

D Stethoscope

Answer: A

Question 4

Which of the following induces nitrogen fixation in soil?

A Protozoa

B Bacteria

C Fungi

D Algae

Answer: B

Question 5

Which of the following is the largest known cell?

A Eukaryotic Cell

B Prokaryotic Cell

C Mycoplasma

D Ostrich Eggs

Answer: D

Question 6

The lowest layer of atmosphere is called .....

A Stratosphere

B Troposphere

C Genosphere

D Exosphere

Answer: B

Question 7

Which chemical is used to generate light, to weld metals?

A Ethylene

B Acetylene

C Glycol

D Oxalic acid

Answer: B

Question 8

Who built Hawa Mahal?

A Guru Ramdas

B Maharaja Pratap Singh

C Rabindra Nath Tagore

D British Govt

Answer: B

Question 9

Dandiya is a popular dance form of.....

A Punjab

B Gujarat

C Maharashtra

D Madhya Pradesh

Answer: B

Question 10

If quantity of good X demanded increases from 2300 to 2700 when price of good Y increases from Rs. 45 to Rs. 55, find Arc Cross elasticity of demand?

A 4

B 1.25

C 0.25

D 0.8

Answer: D

Question 11

Which of the following is not an assumption of perfect competition?

A There are many buyers and sellers

B Average total costs continually decrease.

C The good sold by all sellers in the market is assumed to be homogeneous.

D Buyers and sellers in the market are assumed to have perfect information.

Answer: B

Question 12

The association of animals in which both the partners are benefitted is known as

A Ammansalism

B Commensalism

C Colony

D Mutualism

Answer: D

Question 13

Keoladeo Ghana National Park in Rajasthan was formerly called as

A Salim Ali Bird Sanctuary

B Khijadia Bird Sanctuary

C Bharatpur Bird Sanctuary

D Mayani Bird Sanctuary

Answer: C

Question 14

Mona Lisa is painted on

A Stone

B Wood

C Paper

D Metal sheet

Answer: B

Question 15

What is the study of Moon called?

A Selenology

B Cosmology

C Iridology

D Planetology

Answer: A

Question 16

Which is the largest and deepest ocean?

A Arctic

B Pacific

C Atlantic

D Indian

Answer: B

Question 17

What is the other name of Chanakya ?

A Rajasekhara

B Tejasvi

C Kautilya

D Vatsyayana

Answer: C

Question 18

Jawaharlal Nehru was born in the year

A 1789

B 1839

C 1889

D 1939

Answer: C

Question 19

What is the venue of 2020 Summer Olympics?

A Tokyo

B Seoul

C Dubai

D Singapore

Answer: A

Question 20

For what is Radiocarbon dating technique used?

A To estimate soil contamination

B To estimate the amount of water in fossils

C To estimate the age of fossils

D To estimate the quality of soil

Answer: C

Question 21

The strain produced in a body is directly proportional to the stress applied on it, is called .....

A Dollar's law

B Hooke's law

C Miller's law

D Kepler's law

Answer: B

Question 22

Which article specifies Imposition of President's Rule in States?

A Article 356

B Article 343

C Article 51A

D Article 80

Answer: A

Question 23

Who among the following is also the Chairman of the Planning Commission?

A Defence Minister

B Attorney General

C Prime Minister

D Finance Minister

Answer: C

Question 24

The first woman Chess Grandmaster from India is

A S. Vijayalakshmi

B Tania Sachdev

C Harika Dronavalli

D Richa Pujari

Answer: A

Question 25

Who wrote "Romeo & Juliet"?

A Jane Austen

B Mark Twain

C Toni Morrison

D William Shakespeare

Answer: D

Daily Free SSC Practice Set

Mathematics

Instructions
For the following questions answer them individually

Question 26

Two numbers are 50% and 90% lesser than a third number. By how much percent is the second number to be enhanced to make it equal to the first number?

A 80 percent

B 40 percent

C 44.44 percent

D 400 percent

Answer: D

Explanation:
Let third number = $100x$

First number is 50% less than $100x$ and second number is 90% less than $100x$

=> First number = $50x$ and Second number = $10x$

To make second number equal to first number, it should be enhanced by = $50x - 10x = 40x$

=> Required % = $\frac{40x}{10x} \times 100 = 4 \times 100 = 400\%$

=> Ans - (D)

Free SSC Study Material (18,000 Solved Questions)

Question 27

Reduce 2714/5074 to lowest terms.

A 17/23

B 29/43

C 23/43

D 31/37

Answer: C

Explanation:
Expression : $\frac{2714}{5074}$

HCF of 2714 and 5074 = 118
Dividing numerator and denominator by 118

= $\frac{23}{43}$

=> Ans - (C)

Question 28

What is the value of cosec 120°

A 2/√3

B 2

C -2/√3

D -2

Answer: A

Explanation:
Expression : cosec 120°

= $cosec(180 - 60)$

= $cosec(60)$

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

=> Ans - (A)

Question 29

Volume of a cylinder is 770 cubic cm. If circumference of its base is 22 cm, what will be the curved surface area of the cylinder? (Take π = 22/7)

A 440 sq cms

B 880 sq cms

C 220 sq cms

D 660 sq cms

Answer: A

Explanation:
Let radius of base of cylinder = r cm and height = h cm

Circumference of base = $2\pi r = 22$

=> $2 \times \frac{22}{7} \times r = 22$

=> $r = \frac{7}{2} = 3.5$ cm

Volume of cylinder = $\pi r^2 h = 770$

=> $\frac{22}{7} \times (3.5)^2 \times h = 770$

=> $38.5 \times h = 770$

=> $h = \frac{770}{38.5} = 20$ cm

Curved surface area of cylinder = $2\pi rh$

=> $22 \times 20 = 440\ cm^2$

=> Ans - (A)

Question 30

What will be the sum of the measures all the interior angles of a polygon having 14 sides?

A 2520°

B 2160°

C 2880°

D 3240°

Answer: B

Explanation:

Sum of all interior angles of a polygon having n sides = $(n-2) \times 180°$

Number of sides of polygon, $n = 14$

=> Sum of interior angles = $(14-2) \times 180°$

= $12 \times 180 = 2160°$

=> Ans - (B)

Question 31

A thief is stopped by a policeman from a distance of 350 metres. When the policeman starts the chase, the thief also starts running. Assuming the speed of the thief as 5 km/h and that of the policeman as 7 km/h, how far the thief would have run, before he is over-taken?

A 875 metres

B 700 metres

C 1050 metres

D 525 metres

Answer: A

Explanation:

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

Speed of thief = 5 km/hr and speed of policeman = 7 km/hr

=> Relative speed = 7 - 5 = 2 km/hr

Distance between them = 350 metres = 0.35 km

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

= $\frac{0.35}{2} = \frac{7}{40}$ hr

$\therefore$ Distance covered by thief before he was caught = $5 \times \frac{7}{40}$

= 0.875 km = 875 metres

=> Ans - (A)

Question 32

A does 75% of a work in 25 days. He then calls in B and they together finish the remaining work in 5 days. How long B alone would take to do the whole work?

A 50 days

B 80 days

C 24 days

D 37.5 days

Answer: A

Explanation:
Let total work to be done = 100 units

Work done by A in 25 days = $\frac{75}{100} \times 100 = 75$ units

A's efficiency = $\frac{75}{25} = 3$ units/day

Remaining work = 100 - 75 = 25 units

Let B's efficiency = x units/day

Now, A and B complete remaining work in 5 days

=> $(3 + x) \times 5 = 25$

=> $3 + x = \frac{25}{5} = 5$

=> $x = 5 - 3 = 2$

$\therefore$ Time taken by B to complete the whole work alone = $\frac{100}{2} = 50$ days

=> Ans - (A)

Question 33

The average of 29 consecutive even integers is 60. The highest of these integers is

A 88

B 118

C 176

D 120

Answer: A

Explanation:
The 29 consecutive even integers will form an arithmetic progression with common difference, $d = 2$

Let the first term be a

Average of 29 integers = 60, => Sum = $29 \times 60 = 1740$

=> Sum of these integers = $\frac{n}{2}[2a + (n-1)d] = 1740$

=> $\frac{29}{2}[2a + (28 \times 2)] = 1740$

=> $29(a + 28) = 1740$

=> $(a + 28) = \frac{1740}{29} = 60$

=> $a = 60 - 28 = 32$

$\therefore$ The highest integer or the 29th term, $A_{29} = a + (29-1)d$

= $32 + (28 \times 2) = 32 + 56 = 88$

=> Ans - (A)

Question 34

What should be added to 5(2x-y) to obtain 4(2x - 3y) + 5(x + 4y)?

A 3x - 13y

B 3x + 13y

C 13x - 3y

D 13x + 3y

Answer: B

Explanation:

Let m should be added to 5(2x-y) to obtain 4(2x - 3y) + 5(x + 4y)

=> $(m) + [5(2x - y)] = 4(2x - 3y) + 5(x + 4y)$

=> $m + 10x - 5y = 8x - 12y + 5x + 20y$

=> $m + 10x - 5y = 13x + 8y$

=> $m = (13x - 10x) + (8y + 5y)$

=> $m = 3x + 13y$

=> Ans - (B)

Question 35

If 3(2 - 3x) < 2 - 3x ≥ 4x -6; then x can take which of the following values?

A 2

B -1

C -2

D 1

Answer: D

Explanation:

Expression 1 : 3(2 - 3x) < 2 - 3x

=> $6 - 9x < 2 - 3x$

=> $9x - 3x > 6 - 2$

=> $6x > 4$

=> $x > \frac{2}{3}$ ----------(i)

Expression 2 : 2 - 3x ≥ 4x -6

=> $4x + 3x \leq 2 + 6$

=> $7x \leq 8$

=> $x \leq \frac{8}{7}$ ----------(ii)

Combining inequalities (i) and (ii), we get : $\frac{2}{3} < x \leq \frac{8}{7}$

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

=> Ans - (D)

Question 36

If $sec^2A + cosec^2A$ = X, then the value of X is

A tan^2Acot^2A

B $sinAcosA$

C $secAcosecA$

D $sec^2Acosec^2A$

Answer: D

Explanation:

Expression : $sec^2A + cosec^2A$ = X

= $\frac{1}{cos^2A} + \frac{1}{sin^2A}$

= $\frac{sin^2A+cos^2A}{sin^2Acos^2A} = \frac{1}{sin^2Acos^2A}$

= $sec^2Acosec^2A$

=> Ans - (D)

Question 37

The effective annual rate of interest corresponding to a nominal rate of 15% per annum payable half-yearly is

A 15.56 percent

B 30 percent

C 31.13 percent

D 15 percent

Answer: A

Explanation:

Let sum be = Rs. $100x$

Rate of interest = 15% under compound interest half yearly

Amount after 1 year = $P(1 + \frac{R}{2\times100})^{2\times T}$

= $100x(1 + \frac{15}{200})^{2\times1}$

= $100x(\frac{43}{40})^2 = \frac{43\times43\times x}{16}$

= Rs. $115.5625x$

=> Compound Interest = Rs. $(115.5625x - 100x)$ = Rs. $15.5625x$

$\therefore$ Effective rate of interest = $\frac{15.5625x}{100x} \times 100$

$\approx 15.56\%$

=> Ans - (A)

Question 38

If (4x - 3) - (2x + 1) = 4, then the value of x is

A 0

B 1

C 4

D 3

Answer: C

Explanation:
Expression : (4x - 3) - (2x + 1) = 4

=> $4x - 3 - 2x - 1 = 4$

=> $2x - 4 = 4$

=> $2x = 4 + 4 = 8$

=> $x = \frac{8}{2} = 4$

=> Ans - (C)

Question 39

25% discount is offered on an item. By applying a promo code a customer wins 10% cash back. What is the effective discount?

A 35.75 percent

B 32.5 percent

C 35 percent

D 12.5 percent

Answer: B

Explanation:
Let the marked price of item = Rs. $100x$

Amount after 25 % discount = $100x - \frac{25}{100} \times 100x$

= $100x - 25x = Rs.75x$

Selling price after 10 % cashback = $75x - \frac{10}{100} \times 75x$

= $75x - 7.5x = Rs.67.5x$

=> Total discounted amount = $100x - 67.5x = Rs.32.5x$

$\therefore$ Effective discount = $\frac{32.5x}{100x} \times 100 = 32.5\%$

=> Ans - (B)

Question 40

Which of the following equations has real and distinct roots?

A $3x^2 - 6x + 2 = 0$

B $3x^2 - 6x + 3 = 0$

C $x^2 - 8x + 16 = 0$

D $4x^2 - 8x + 4 = 0$

Answer: A

Explanation:

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

(A) : $3x^2 - 6x + 2 = 0$

=> D = $(-6)^2 - 4(3)(2) = 36 - 24 = 12$

(B) : $3x^2 - 6x + 3 = 0$

=> D = $(-6)^2 - 4(3)(3) = 36 - 36 = 0$

(C) : $x^2 - 8x + 16 = 0$

=> D = $(-8)^2 - 4(1)(16) = 64 - 64 = 0$

(D) : $4x^2 - 8x + 4 = 0$

=> D = $(-8)^2 - 4(4)(4) = 64 - 64 = 0$

Thus, the equation : $3x^2 - 6x + 2 = 0$ has real and distinct roots.

Question 41

In a triangle the length of the side opposite the angle which measures 30° is 9 cm, what is the length of the side opposite to the angle which measures 60°?

A 3√3 cm

B 3/2 cm

C 9/2 cm

D 9√3 cm

Answer: D

Explanation:

In the given triangle, two angles are 30° and 60°, => Third angle = 90°

In a 30-60-90 triangle, the hypotenuse is always twice as long as the side opposite the 30° angle and the side opposite the 60° angle is √3 times as long as the side opposite the 30° angle.

The ratio of sides opposite 30°, 60° and 90° angles =1 : $\sqrt{3}$: 2

Length of the side opposite the 30° angle = 9 cm

=> Length of side opposite the 60° angle = $9\sqrt{3}$ cm

=> Ans - (D)

Question 42

For triangle ABC, what would be the equation of median AD if co-ordinates of A, B and C are (-5,4), (-4,0) and (-2,2) respectively?

A 3x - 2y = -11

B 3x + 2y = 7

C 3x + 2y = -7

D 3x - 2y = 11

Answer: C

Explanation:

Co-ordinates of triangle ABC are A(-5,4), B(-4,0) and C(-2,2)

Median AD will bisect BC at D and D will be the mid point of BC.

Thus, coordinates of D are = $\left(\frac{-4-2}{2}, \frac{0+2}{2}\right)$

= $\left(\frac{-6}{2}, \frac{2}{2}\right) = (-3, 1)$

Now, equation of line passing through (x_1, y_1) and (x_2, y_2) is : $(y - y_1) = \frac{y_2 - y_1}{x_2 - x_2}(x - x_1)$

=> Equation of AD where A(-5,4)and D(-3,1) is :

=> $(y - 4) = \frac{(1-4)}{(-3+5)}(x + 5)$

=> $(y - 4) = \frac{-3}{2}(x + 5)$

=> $2y - 8 = -3x - 15$

=> $3x + 2y = -7$

=> Ans - (C)

Question 43

A wholesaler sells a watch to a retailer at a gain of 37% and the retailer sells it to a customer at a loss of 25%. If the customer pays Rs 2,620.125, what had it cost the wholesaler?

A Rs 2550

B Rs 2692

C Rs 3327

D Rs 2408

Answer: A

Explanation:
For the wholesaler,

Let the cost price = Rs. $100x$

With profit of 37%, Selling price = $\frac{137}{100} \times 100x = Rs.137x$

For the retailer,

Cost price = Rs. $137x$

With a loss of 25%, Selling price = $\frac{75}{100} \times 137x = Rs.102.75x$

For the customer,

Cost price = $102.75x = 2620.125$

=> $x = \frac{2620.125}{102.75} = 25.5$

$\therefore$ Cost price for retailer = $100 \times 25.5 = Rs.2550$

Question 44

The ratio of present ages of Rasika and Shami is 7:5. After 17 years the ratio of their ages will be 12:11. What is Rasika's present age?

A 5

B 80

C 16

D 7

Answer: D

Explanation:

Let Rasika's present age = $7x$ years and Shami's present age = $5x$ years

According to ques, => $\frac{7x+17}{5x+17} = \frac{12}{11}$

=> $77x + 187 = 60x + 204$

=> $77x - 60x = 204 - 187$

=> $17x = 17$

=> $x = \frac{17}{17} = 1$

∴ Rasika's age = $7 \times 1 = 7$ years

=> Ans - (D)

SSC CHSL Free Mock Test

Question 45

If tan(A + B) = X, then the value of X is

A (tanA - tanB)/(1 + tanAtanB)

B (tanA + tanB)/(1 - tanAtanB)

C (tanA + tanB)/(1 + tanAtanB)

D (tanA - tanB)/(1 - tanAtanB)

Answer: B

Explanation:

Expression : tan(A + B) = X

$= \frac{sin(A+B)}{cos(A+B)}$

$= \frac{sinAcosB+cosAsinB}{cosAcosB-sinAsinB}$

Dividing both numerator and denominator by $(cosAcosB)$

$= \frac{sinAcosB+cosAsinB}{cosAcosB} \div \frac{cosAcosB-sinAsinB}{cosAcosB}$

$= \frac{tanA+tanB}{1-tanAtanB}$

=> Ans - (B)

Question 46

The distance between the points (7,7) and (k,-5) is 13. Find k?

A -2

B 4

C -4

D 2

Answer: D

Explanation:

Distance between two points (x_1, y_1) and (x_2, y_2) = $\sqrt{(y_2 - y_1)^2 + (x_2 - x_1)^2}$

Now, distance between points (7,7) and (k,-5) = 13

=> $\sqrt{(-5-7)^2 + (k-7)^2} = 13$

=> $144 + (k^2 - 14k + 49) = (13)^2 = 169$

=> $k^2 - 14k = 169 - 49 - 144$

=> $k^2 - 14k + 24 = 0$

=> $k^2 - 12k - 2k + 24 = 0$

=> $k(k-12) - 2(k-12) = 0$

=> $(k-12)(k-2) = 0$

=> $k = 12, 2$

=> Ans - (D)

Question 47

Read the data answer the questions

	Boys	Girls
Medical	25	80
Engineering	75	20

What percent students who choose engineering are girls?

A 21.05

B 10

C 20

D 26.67

Answer: A

Explanation:

Number of girls who chose engineering = 20

Total number of engineers = 75 + 20 = 95

=> Percent of the girls who choose engineering = $\frac{20}{95} \times 100$

= $\frac{400}{19} = 21.05\%$

=> Ans - (A)

Question 48

Read the data and answer the given questions

	Cumulative production
January	390
February	1000
March	1540
April	2060
May	2580
June	2870

How many cars were manufactured in the month of April and May?

A 810

B 1040

C 1060

D 4640

Answer: B

Explanation:
Number of cars produced in :

January = 390

February = 1000 - 390 = 610

March = 1540 - 1000 = 540

April = 2060 - 1540 = 520

May = 2580 - 2060 = 520

June = 2870 - 2580 = 290

=> Number of cars that were manufactured in the month of the April and may = 520 + 520 = 1040

=> Ans - (B)

Question 49

Read the data and answer the given questions

Day of the week	Distance jogged (in km)
Monday	4
Tuesday	5
Wednesday	4
Thursday	1.5
Friday	4.5
Saturday	5
Sunday	2.5

If 400 calories are burned by jogging 5 km, how many calories were burnt in the given week?

A 2070 calories

B 2170 calories

C 2120 calories

D 2020 calories

Answer: C

Explanation:
Total distance jogged in entire week

= 4 + 5 + 4 + 1.5 + 4.5 + 5 + 4 = 26.5 km

Calories burned after jogging 5 km = 400 calories

=> Calories burned after jogging 26.5 km = $\frac{400}{5} \times 26.5$

= $80 \times 26.5 = 2120$ calories

=> Ans - (C)

Question 50

Read the data and answer the given questions?

Items	Yearly expence in lakhs
Raw Materilas	11
Labour	3
Rent	4
Interest	6
Taxes	4

Rent and taxes are what percent of the total Expenses?

A 21.32 percent

B 28.57 percent

C 14.07 percent

D 35.82 percent

Answer: B

Explanation:
Yearly expense in rent and taxes (in lakhs) = 4 + 4 = 8

Total expenses (in lakhs) = 11 + 3 + 4 + 6 + 4 = 28

=> Required % = $\frac{8}{28} \times 100$

= $\frac{200}{7} \approx 28.57\%$

=> Ans - (B)

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'.
Please put on a note(A)/declaring that (B)/Monday will be a holiday.(C)/No error(D)

A A

B B

C C

D D

Answer: A

Question 52

Select the antonym of
veteran

A youthful

B pliable

C expert

D amateur

Answer: D

Question 53

In the following question, out of the four alternatives, select the alternative which best expresses the meaning of the idiom/phrase.
To make a long story short

A A very long boring narrative

B One should always communicate with fewer words wherever possible

C Used to end an account of events quickly

D When you want the complete details and not just the summary

Answer: C

Question 54

Select the synonym of
incursion

A hurt

B retreat

C aggression

D cut

Answer: C

SSC CHSL Important Questions and Answers (Download PDF)

Question 55

In the following question, out of the four alternatives, select the alternative which best expresses the meaning of the idiom/phrase.
To steal someone's thunder

A To share the secret of a person just before that person was supposed to receive praise

B To defuse the ego of an egoistic person

C To plagiarize work done by others

D To do a job before another person can do it and take away the credit

Answer: D

Question 56

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'.
We are pleased that(A)/our daughter is married with(B)/such a nice man.(C)/No error(D)

A A

B B

C C

D D

Answer: B

Question 57

Rearrange the parts of the sentence in correct order:
Thus,
P-a developing economy also needs
Q-to have some notion of external balance
R-at the very least,

A RPQ

B RQP

C PQR

D QPR

Answer: A

Question 58

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.
When did Rohit return my bike?

A When was my bike returned by Rohit?

B When was it that Rohit returned my bike?

C Rohit returned my bike when?

D When did my bike come back from Rohit?

Answer: A

Question 59

Improve the bracketed part of the sentence.

Both the families were invited but neither (had accepted) our invitation.

A accepted

B did accept

C has accepted

D no improvement

Answer: A

Question 60

Select the word with the correct spelling.

A sentreis

B surgeons

C sibblings

D imolate

Answer: B

Question 61

Select the synonym of rot

A mature

B stagnate

C smell

D decay

Answer: D

Question 62

Choose the antonym of fatigue

A restive

B slouch

C vigour

D tire

Answer: C

Question 63

Improve the bracketed part of the sentence. You are what you (have eaten).

A will eat

B eat

C shall eat

D no improvement

Answer: B

Question 64

In the following question, out of the four alternatives, select the alternative which is the best substitute of the phrase.
To regard with disgust and hatred.

A tease

B abhor

C ridicule

D sneer

Answer: B

Question 65

In the following question, sentence given with blank is 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 investigations revealed a .....lack of efficiency in the functioning of the airlines.

A plain

B obscure

C conspicuous

D concealed

Answer: C

Question 66

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

A profusely

B richly

C deeply

D widely

Answer: D

Question 67

Select the word with the correct spelling.

A wrapping

B bargundy

C streses

D stenchhes

Answer: A

Question 68

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.
The coach said, "Bravo! Puneet, you have done well."

A The coach applauded Puneet saying that he had done well.

B The coach said to Puneet Bravo, he had done well.

C The coach congratulated Puneet, saying he did well.

D The coach said to Puneet, that he did well.

Answer: A

Question 69

Rearrange the parts of the sentence in correct order.
Gone are the days
P-about foreign trade and payments
Q-and not really worried
R-when we could think of ourselves as a closed economy

A QRP

B RQP

C PRQ

D PQR

Answer: B

Question 70

In the following question, out of the four alternatives, select the alternative which is the best substitute of the phrase.
unable to be destroyed or removed.

A ineradicable

B habit

C worn

D fixed

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.
An ideal policeman is a myth. You come .....(1).....him only in crime fiction. .....(2).....elusive is 'good policing', an idea .....(3).....even the best of criminal justice thinkers have found it difficult to define. This is why, in what is a chaotic world, we have to reluctantly ..... (4).....for an imperfect policeman and .....(5).....
inadequate system.

Question 71

(1)

A over

B cross

C across

D to

Answer: C

Question 72

(2)

A Fairly

B Justly

C Equally

D Uniformly

Answer: C

Question 73

(3)

A that

B which

C whom

D who

Answer: A

Question 74

(4)

A decide

B pay

C adjust

D settle

Answer: D

Question 75

(5)

A a

B an

C this

D our

Answer: B

Reasoning

Instructions
For the following questions answer them individually

Question 76

Select the related word/letters/number from the given alternatives. Subhas Chandra Bose:Orissa:: Mahatma Gandhi: ?

A Bihar

B Jammu and Kashmir

C Gujarat

D Delhi

Answer: C

Explanation:
Subhas Chandra Bose was born in Orissa, similarly Mahatma Gandhi was born in *Gujarat*.

=> Ans - (C)

Question 77

Select the related word/letters/number from the given alternatives. VERMIN :? :: ORDERS : ERSORD

A MNIVER

B MINERV

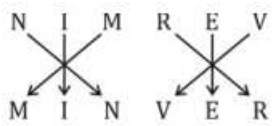
C MINVRE

D MINVER

Answer: D

Explanation:
Expression = VERMIN :? :: ORDERS : ERSORD

The pattern followed is :



Thus, VERMIN : **MINVER**

=> Ans - (D)

Question 78

Select the related word/letters/number from the given alternatives. MANTLE : SFTYRJ :: PARROT : ?

A VFXWUY

B VXFWUY

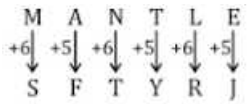
C VFXWYU

D VFXUWY

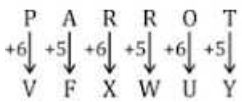
Answer: A

Explanation:
Expression = MANTLE : SFTYRJ :: PARROT : ?

The pattern followed is :



Similarly, for PARROT :



=> Ans - (A)

Question 79

Select the related word/letters/number from the given alternatives.
545 : 196 :: 173 : ?

A 72

B 121

C 84

D 41

Answer: B

Explanation:
Expression = 545 : 196 :: 173 : ?

The second number is the square of the sum of digits of first number.

Eg :- $(5+4+5)^2 = (14)^2 = 196$

Similarly, $(1+7+3)^2 = (11)^2 = 121$

=> Ans - (B)

Question 80

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

A Kuchipudi

B Kathak

C Bhangra

D Pongal

Answer: D

Explanation:
Pongal is a festival, others are dance forms, hence it is the odd one out.

=> Ans - (D)

Question 81

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

A PE

B MV

C GP

D DM

Answer: A

Explanation:
(A) : P (**-11** letters) = E

(B) : M (+9 letters) = V

(C) : G (+9 letters) = P

(D) : D (+9 letters) = M

=> Ans - (A)

Question 82

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

A 512

B 216

C 343

D 719

Answer: D

Explanation:
$512 = 8^3$, $216 = 6^3$ and $343 = 7^3$, but 719 is not a perfect cube, hence it is the odd one out.

=> Ans - (D)

Question 83

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

A 2543

B 2192

C 9362

D 3713

Answer: C

Explanation:
The sum of digits of the numbers is 14, but $9 + 3 + 6 + 2 = 20$, hence 9362 is the odd one out.

=> Ans - (C)

Question 84

A series is given with one term missing. Choose the correct alternative from the given ones that will complete the series.
? ,Charles Cornwallis, Lord Dalhousie, Lord Canning, Lord Curzon

A Warren Hastings

B Lord Irwin

C Lord Mountbatten

D C. Rajagopalachari

Answer: A

Explanation:
Governor generals of India in chronological order.

= Warren Hastings -> Charles Cornwallis -> Lord Dalhousie -> Lord Canning -> Lord Curzon

=> Ans - (A)

Question 85

A series is given with one term missing. Choose the correct alternative from the given ones that will complete the series.
CD,HI,NO,UV,?

A LM

B NP

C CD

D NF

Answer: C

Explanation:
Expression : CD,HI,NO,UV,?

The pattern followed in each letter of the terms is :

1st letter : C (+5 letters) = H (+6 letters) = N (+7 letters) = U (+8 letters) = C

2nd letter : D (+5 letters) = I (+6 letters) = O (+7 letters) = V (+8 letters) = D

Thus, missing term = **CD**

=> Ans - (C)

Question 86

A series is given with one term missing. Choose the correct alternative from the given ones that will complete the series.
IB,QD,XH,DP,?

A KL

B KI

C GH

D IF

Answer: D

Explanation:
Expression : IB,QD,XH,DP,?

The pattern followed in each letter of the terms is :

1st letter : I (+8 letters) = Q (+7 letters) = X (+6 letters) = D (+5 letters) = I

2nd letter : B (+2 letters) = D (+4 letters) = H (+8 letters) = P (+16 letters) = F

Thus, missing term = **IF**

=> Ans - (D)

Question 87

A series is given with one term missing. Choose the correct alternative from the given ones that will complete the series.
13,25,49,85, ?

A 331

B 132

C 133

D 381

Answer: C

Explanation:
Multiples of 12 are added.

13 + 12 = 25

25 + 24 = 49

49 + 36 = 85

85 + 48 = **133**

=> Ans - (C)

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) All young scientists are open-minded.
(II) No open-minded men are superstitious.
Conclusions:
(I) No scientist is superstitious.
(II) No young people are superstitious.

A Conclusion I follows

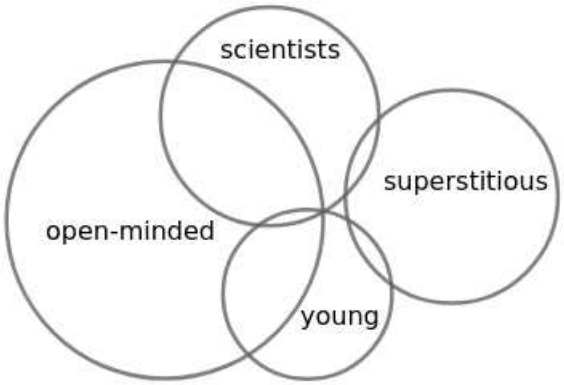
B Conclusion II follows

C Neither I nor II follows

D Both I and II follows

Answer: C

Explanation:
The basic diagram for the given statements is



(I) No scientist is superstitious

From the basic diagram, some scientists are superstitious. Hence conclusion I do not follow.

(II) No young people are superstitious

From the basic diagram, some young people are superstitious. Hence conclusion II do not follow.

∴ Neither conclusion I nor conclusion II follows the given statements.

Hence, the correct answer is Option C

Question 89

Five friends are standing in a line. Nishu is taller than Riya but shorter than Pooja. Amrita is the shortest.Riya is shorter than Nishu but taller than Nikita. Who is the second tallest?

A Amrita

B Pooja

C Riya

D Nishu

Answer: D

Explanation:
Nishu is taller than Riya but shorter than Pooja, => Pooja > Nishu > Riya

Also, Amrita is the shortest.

Riya is shorter than Nishu but taller than Nikita, => Nishu > Riya > Nikita

Combining above statements, we get : **Pooja > Nishu > Riya > Nikita > Amrita**

∴ Nishu is the second tallest.

=> Ans - (D)

Question 90

Arrange the given words in the sequence in which they occur in the dictionary.
i. Apparent
ii. Appointed
iii. Apostate
iv. Apparel

A ii, i, iv, iii

B iii,ii,iv,i

C iii,iv,i,ii

D iii,iv,ii,i

Answer: C

Explanation:
As per the order of dictionary :

= Apostate -> Apparel -> Apparent -> Appointed

≡ iii,iv,i,ii

=> Ans - (C)

Question 91

In a certain code language, "DELETE" is written as "#@^@%@" and "GRAM" is written as "!?*&". How is"TELEGRAM" written in that code language?

A %@^@^?*&

B %@^@!?^&

C %@*@!?*&

D %@^@!?*&

Answer: D

Explanation:
In the given code language,

D = #, L = ^, T = %, E = @, G = !, R = ?, A = *, M = &.

Therefore, the code for TELEGRAM is coded as %@^@!?*&.

Hence, option d is the correct answer.

Question 92

Find the missing number in the table as per the series

99	31	91
15	17	18
1485	527	?

A 1678

B 2341

C 1137

D 1638

Answer: D

Explanation:
In each column, the number at the end is the product of other two.

Eg :- $99 \times 15 = 1485$ and $31 \times 17 = 527$

Similarly, $91 \times 18 = 1638$

=> Ans - (D)

Question 93

If "#" means "subtraction", "&" means "division", "@" means "addition" and "%" means "multiplication", then 315&3#9@4%6 = ?

A 120

B 190

C 221

D 420

Answer: A

Explanation:
Expression : 315&3#9@4%6 = ?

$\equiv 315 \div 3 - 9 + 4 \times 6$

$= \binom{315}{3} + (-9) + (4 \times 6)$

$= 105 - 9 + 24 = 120$

=> Ans - (A)

Question 94

Which set of letters when sequentially placed at the gaps in the given letter series shall complete it? MN_NOM_OPM_OP_

A MNNQ

B MNOQ

C MNPQ

D MNOO

Answer: A

Explanation:

The pattern followed is that English alphabets starting from 'MN' are written with one new (next) letter appended after every term.

= MN **M**NO M**N**OP M**N**OP**Q**

=> Ans - (A)

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Question 95

Navjot starts moving towards the west. After covering some distance, he turns left and then takes a right. Which direction is he facing now?

A South

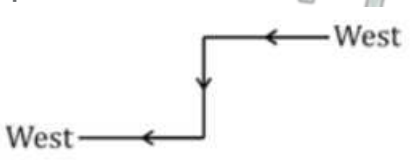
B North

C West

D East

Answer: C

Explanation:



Navjot starts moving towards the west. After covering some distance, he turns left and moved towards south and then takes a right.

Thus, he is facing west at the end.

=> Ans - (C)

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 S to 9. A letter from these matrices can be represented first by its row and next by its column, for example, 'N can be represented by 68, 99 etc. and 'V' can be represented by 21, 32 etc. Similarly, you have to Identify the set for the word 'NORM'.

Matrix 1

	0	1	2	3	4
0	A	T	M	D	O
1	S	A	N	F	I
2	N	V	Y	A	F
3	A	N	V	S	E
4	O	L	M	B	N

Matrix 2

	5	6	7	8	9
5	R	N	M	R	Y
6	O	I	V	A	O
7	N	V	S	M	R
8	R	M	W	O	Y
9	V	V	Y	H	A

A 44,04,58,86

B 75,88,22,57

C 12,33,55,78

D 20,40,85,96

Answer: A

Explanation:
(A) : 44,04,58,86 = **NORM**

(B) : 75,88,22,57 = NOYM

(C) : 12,33,55,78 = NSRM

(D) : 20,40,85,96 = NORV

=> Ans - (A)

Question 97

Pointing to a woman, a girl says, "She is mother of the only child of my father-in-law." How is the woman related to the girl?

A Mother-in-law

B Granddaughter

C Mother

D Cousin

Answer: A

Explanation:
Only child of the girl's father-in-law = Girl's husband

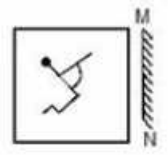
Now, the woman is the mother of girl's husband.

Thus, the woman is girl's mother-in-law.

=> Ans - (A)

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 ?



A 

B 

C 

D 

Answer: A

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

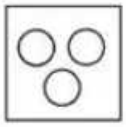
So the small line at the bottom pointing bottom left will be reversed and will now point at bottom right, thus the middle two options will be eliminated.

Also, in the question figure, the curved line at the right will also be reversed, hence it will appear at left side, hence first option is the right image.

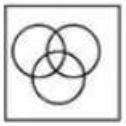
=> Ans - (A)

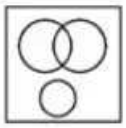
Question 99

Identify the diagram that best represens the relationship among the given classes. Urban people, Educated, Hard-working

A 

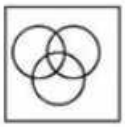
B 

C 

D 

Answer: C

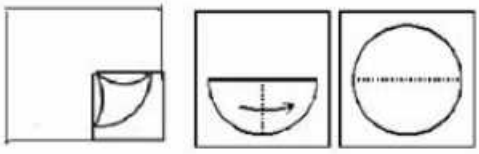
Explanation:
Urban people can be both Educated and Hard-working, also hard working people can belong to urban and be educated, thus all three will intersect, hence the venn diagram that best describes above relation is :



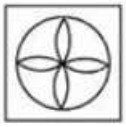
=> Ans - (C)

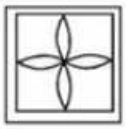
Question 100

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 ?



A 

B 

C 

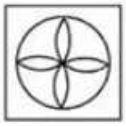
D 

Answer: B

Explanation:
When the paper is unfolded first to the left, a closed curve will appear at bottom of the part.

When the paper is unfolded again to the top, closed curves will appear at the left, right and top parts of the paper.

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



Hence, the correct answer is Option B