



SSC CHSL 15 Jan 2017 Afternoon Shift

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Reasoning

Instructions

For the following questions answer them individually

Question 1

Select the related word/letters/number from the given alternatives. Rajiv Gandhi Airport : Hyderabad : : Indira Gandhi Airport : ?

- A Mumbai
- B Bangalore
- C Delhi
- D Kolkata

Answer: C

Explanation:

Rajiv Gandhi Airport is located in Hyderabad, similarly Indira Gandhi Airport is located in Delhi.

=> Ans - (C)

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Question 2

Select the related word/letters/number from the given alternatives. TEW : PAS : : IVX : ?

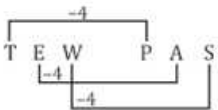
- A ETR
- B SQR
- C ERT
- D RNP

Answer: C

Explanation:

Expression = TEW : PAS : : IVX : ?

The pattern followed is :



Thus, IVX : **ERT**

=> Ans - (C)

Question 3

Select the related word/letters/number from the given alternatives. PEON : QGRR : : RUDE : ?

- A MLNO
- B SWGI
- C TVSA
- D STRR

Answer: B

Explanation:

Expression = PEON : QGRR :: RUDE : ?

The pattern followed is :

P	E	O	N
+1↓	+2↓	+3↓	+4↓
Q	G	R	R

Thus, RUDE : **SWGI**

=> Ans - (B)

Question 4

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

167 : 43 :: 245 : ?

A 75

B 22

C 72

D 91

Answer: B

Explanation:

Expression = 167 : 43 :: 245 : ?

The second number is the sum of first digit of first number and product of last two digits of first number.

Eg :- $1 + (6 \times 7) = 1 + 42 = 43$

Similarly, $2 + (4 \times 5) = 2 + 20 = 22$

=> Ans - (B)

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Question 5

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

A Hazy

B Cloudy

C Translucent

D Transparent

Answer: D

Explanation:

Except Transparent other three are synonyms meaning vague, hence it is the odd one out.

=> Ans - (D)

Question 6

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

A IDD

B AGG

C UTT

D REE

Answer: D

Explanation:

Except REE other three have only one vowel, hence it is the odd one out.

=> Ans - (D)

Question 7

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

A 286

B 374

C 143

D 279

Answer: D

Explanation:

The positive difference of the first two digits is equal to the last digit, but $7 - 2 \neq 9$, hence 279 is the odd one out.

=> Ans - (D)

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Question 8

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

A 358

B 853

C 538

D 240

Answer: D

Explanation:

The first three options contain same numbers (3,5 and 8) with different positions, hence 240 is the odd one out.

=> Ans - (D)

Question 9

A series is given with one term missing. Choose the correct alternative from the given ones that will complete the series. Thousand, Ten thousand, Lakh, Ten lakh, ?

A Ones

B Hundred

C Ten crore

D Crore

Answer: D

Explanation:

Indian monetary series in increasing order.

= Thousand -> Ten thousand -> Lakh -> Ten lakh -> Crore

=> Ans - (D)

Question 10

A series is given with one term missing. Choose the correct alternative from the given ones that will complete the series. ABC, BDF, DHL, ?

A RST

B HPX

C CDE

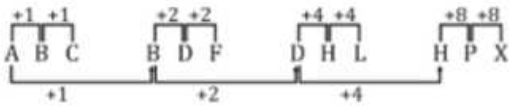
D EGF

Answer: B

Explanation:

Expression : ABC, BDF, DHL, ?

The pattern followed is :



Thus, missing term = **HPX**

=> Ans - (B)

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Question 11

A series is given with one term missing. Choose the correct alternative from the given ones that will complete the series. IJ, PQ, XY, ?

A DE

B OP

C GH

D WV

Answer: C

Explanation:

Expression : IJ, PQ, XY, ?

The pattern followed in each letter of the terms is :

1st letter : I (+7 letters) = P (+8 letters) = X (+9 letters) = G

2nd letter : J (+7 letters) = Q (+8 letters) = Y (+9 letters) = H

Thus, missing term = **GH**

=> Ans - (C)

Question 12

A series is given with one term missing. Choose the correct alternative from the given ones that will complete the series. 15, 32, 99, 400, ?

- A 2001
- B 2004
- C 2005
- D 1994

Answer: C

Explanation:

The pattern followed is :

$$15 \times 2 + 2 = 32$$

$$32 \times 3 + 3 = 99$$

$$99 \times 4 + 4 = 400$$

$$400 \times 5 + 5 = \mathbf{2005}$$

=> Ans - (C)

Question 13

In the following question, two statements are given each followed by two conclusions I and II. You have to consider the statement 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 horses are bullocks.
- (II) All bullocks are goats.

Conclusions:

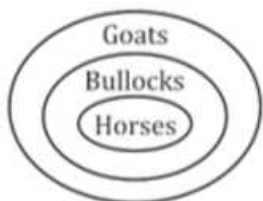
- (I) All horses are goats.
- (II) All goats are horses.

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

Answer: A

Explanation:

The venn diagram for above statements is :



Conclusions:

- (I) All horses are goats = true
- (II) All goats are horses = false

Thus, only conclusion I follows

=> Ans - (A)

Question 14

A racing event was organised in a jungle. The dog ran faster than the elephant but slower than the tiger. The deer was the fastest. The lion ran faster than the tiger. Who was the second to finish the race?

- A Dog
- B Deer
- C Elephant
- D Lion

Answer: D

Explanation:

The dog ran faster than the elephant but slower than the tiger, => Tiger > Dog > Elephant

Also, the deer was the fastest.

The lion ran faster than the tiger, => Lion > Tiger

Combining above statements, we get : **Deer > Lion > Tiger > Dog > Elephant**

∴ Lion was the second to finish the race.

=> Ans - (D)

Question 15

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

- i. Cover
- ii. Clandestine
- iii. Coward
- iv. Cajole

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

Answer: C

Explanation:

As per the order of dictionary :

= Cajole -> Clandestine -> Cover -> Coward

≡ iv, ii, i, iii

=> Ans - (C)

Question 16

In a certain code language, 'NIGERIA' is written as '@#^\$?#*'. How is 'GINGER' written in that code language?

- A ^#\$@^?
- B ^#@^\$?
- C ^#@\$^?
- D #@\$^?

Answer: B

Explanation:

The codes for each letter is given.

- G -> ^
- I -> #
- N -> @
- G -> ^
- E -> \$
- R -> ?

Thus, GINGER : ^#@^\$?

=> Ans - (B)

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Question 17

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

45	55	26
50	51	65
60	49	?

- A 19
- B 43
- C 64
- D 23

Answer: C

Explanation:

The vertical sum is constant:

$$(45 + 50 + 60) = 155$$

$$(55 + 49 + 51) = 155$$

$$(26 + 65 + x) = 155$$

Hence, $x = 64$.

Question 18

If "-" means "plus", "x" means "divide", "÷" means "multiply" and "+" means "minus", then $26 + 400 \times 20 - 21 \div 12 = ?$

- A 258
- B 219
- C 216
- D 230

Answer: A

Explanation:

Expression : $26 + 400 \times 20 - 21 \div 12 = ?$

$$\equiv 26 - 400 \div 20 + 21 \times 12$$

$$= (26) - \binom{400}{20} + (21 \times 12)$$

$$= 26 - 20 + 252 = 258$$

=> Ans - (A)

Question 19

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

_BA_BBA_AB_B

A ABAB

B AAAB

C BBAB

D BBBA

Answer: B

Explanation:

The pattern followed is that the term 'AB' is repeated with increase in both the letters after each term.

= AB AABB AAABBB

=> Ans - (B)

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Question 20

A cat is chasing a mouse. The cat moves towards north for 25m, takes a right turn and move 100m, turns towards the south and moves 25m further. Finally, it turns left and moves 55m. What is the distance between the initial and the final position of the cat?

A 185m

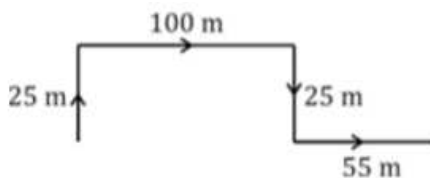
B 155m

C 190m

D 135m

Answer: B

Explanation:



The cat moves towards north for 25 m, after that it takes a right turn and move 100 m towards east, then it again turns right towards the south and moves 25 m further. Finally, it turns left and moves 55 m towards east.

Thus, the distance between the initial and the final position of the cat = $100 + 55 = 155$ m

=> Ans - (B)

Question 21

A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as shown in the given two matrices. The columns and rows of Matrix-I are numbered from 0 to 4 and that of Matrix-II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, for example, 'N' can be represented by 23, 77 etc. and 'R' can be represented by 14, 95 etc. Similarly, you have to identify the set for the word 'FIRED'.

Matrix - I

	0	1	2	3	4
0	F	D	P	R	B
1	G	E	R	A	R
2	H	R	O	N	E
3	R	C	T	E	G
4	S	I	E	T	Q

Matrix - II

	5	6	7	8	9
5	S	H	U	H	G
6	D	L	H	F	F
7	E	H	N	I	D
8	Q	S	I	X	A
9	R	I	F	B	S

A 00, 78, 12, 11, 01

B 97, 87, 95, 88, 65

C 68, 66, 14, 24, 01

D 67, 41, 55, 11, 31

Answer: A

Explanation:

(A) : 00, 78, 12, 11, 01 = FIRED

(B) : 97, 87, 95, 88, 65 = FIRXD

(C) : 68, 66, 14, 24, 01 = FLRED

(D) : 67, 41, 55, 11, 31 = HISEC

=> Ans - (A)

Question 22

Introducing a girl, Poonam says, "She is the daughter of the only sister of the son of my mother". How is that girl related to Poonam?

A Cousin

B Niece

C Sister-in-law

D Daughter

Answer: D

Explanation:

Son of Poonam's mother = Poonam's brother

Now, only sister of Poonam's brother = Poonam herself

Thus, the girl is the daughter of Poonam

=> Ans - (D)

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Question 23

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



Answer: B

Explanation:

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

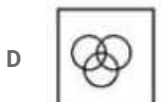
So the hook in the middle will be reversed and will now face left, thus the third option will be eliminated.

Also, in the question figure, the dot alongside the hook will also change its position, hence it will appear at right side, hence second option is the right image.

=> Ans - (B)

Question 24

Identify the diagram that best represents the relationship among the given classes. Animals, Lion, Tiger



Answer: A

Explanation:

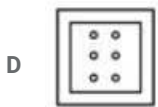
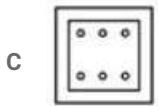
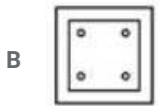
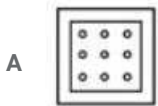
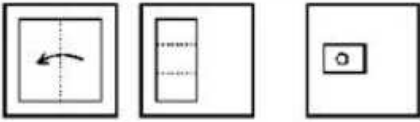
Both lion and tiger are different types of animals, hence the venn diagram that best describes above relation is :



=> Ans - (A)

Question 25

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: D

Explanation:

When the paper is unfolded first to the top and bottom, one circle each will appear similarly on the top and bottom part.

When the paper is unfolded again to the right, three circles will appear similarly on the right of the paper.

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



Hence, the correct answer is Option D

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General Awareness

Instructions

For the following questions answer them individually

Question 26

The transfer of data from one application to another in a computer system is known as

- A Dynamic Data Exchange
- B Dodgy Data Exchange
- C Dogmatic Data Exchange

D Dynamic Disk Exchange

Answer: A

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Question 27

General anaesthetic was invented by?

A Alfred P. Southwick

B Isaac Singer

C Murasaki Shikibu

D Hanaoka Seishū

Answer: D

Question 28

Pneumonia affects which of the following organs of human body?

A Kidneys

B Lungs

C Throat

D Liver

Answer: B

Question 29

Mendel is known as

A Father of Physiology

B Father of Geology

C Father of Genetics

D Father of Biology

Answer: C

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Question 30

Which of the following are also known as Suicidal bag of Cells?

A Lysosomes

B Lycosome

C Nucleus

D Chromosome

Answer: A

Question 31

Which atmospheric layer contains ozone layer?

- A Genosphere
- B Zonosphere
- C Stratosphere
- D Ionosphere

Answer: C

Question 32

.....fiber is used in making bulletproof vests.

- A Nylon-66
- B Terylene
- C Kevlar
- D Lexan

Answer: C

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Question 33

India Gate was designed by

- A Frank Lloyd Wright
- B Sir Edwin Lutyens
- C Frank Gehry
- D Zaha Hadid

Answer: B

Question 34

What is India's national flower?

- A Lily
- B Rose
- C Lotus
- D Sunflower

Answer: C

Question 35

If the average total cost are Rs 54, average variable cost is Rs 36 and quantity produced is 2500 units, find the total fixed costs (in Rs) of the firm?

- A 30000
- B 15000
- C 45000
- D 60000

Answer: C

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Question 36

Unemployment that arises when there is a general downturn in business activity is known as

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

Answer: C

Question 37

Mesothelioma is a type of cancer. The most common area affected in it is the lining of the

- A heart
- B brain
- C stomach
- D lungs

Answer: D

Question 38

Manganite is an ore/mineral of

- A Beryllium
- B Chromium
- C Manganese
- D Copper

Answer: C

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Question 39

International yoga day is celebrated on which day?

- A 15th June
- B 21st June
- C 28th June
- D 1st June

Answer: B

Question 40

"Sirius", the brightest star outside solar system, is also called

- A Cat star
- B Dog star
- C Fox star
- D Lion star

Answer: B

Question 41

In terms of size, Jupiter ranks no. in our Solar System.

- A 1
- B 2
- C 3
- D 4

Answer: A

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Question 42

Who discovered sea route to India?

- A Babur
- B Vasco-da-Gama
- C Galileo
- D Ferondo

Answer: B

Question 43

Subhas Chandra Bose was born in the year

- A 1797
- B 1847
- C 1897
- D 1947

Answer: C

Question 44

Who among these has not been awarded Bharat Ratna?

- A Sachin Tendulkar
- B Lata Mangeshkar
- C Dhyan Chand
- D Satyajit Ray

Answer: C

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Question 45

Which among the following is a vector quantity?

- A Heat
- B Angular momentum
- C Work
- D Time

Answer: B

Question 46

Density of water is maximum at which temperature?

- A 12 degree Celsius
- B 8 degree Celsius
- C 4 degree Celsius
- D 0 degree Celsius

Answer: C

Question 47

Who elects the members of Rajya Sabha?

- A Elected members of the Legislative Council
- B The People

C Elected members of the Legislative Assembly

D Lok Sabha

Answer: C

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Question 48

What is the full form of MLA in the Indian Constitution?

A Member of Legislative Assembly

B Master of Legislative Assembly

C Member of Left Assembly

D Master of Left Assembly

Answer: A

Question 49

What was India's ranking in Rio Olympics 2016 Medal List?

A 11

B 33

C 67

D 96

Answer: C

Question 50

Who is the author of "The Secret of the Nagas"?

A Jhumpa Lahiri

B Amish Tripathi

C Ravinder Singh

D Salman Rushdie

Answer: B

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English

Instructions

For the following questions answer them individually

Question 51

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.

Pinky said, "What a beautiful vase!"

- A Pinky exclaimed that it is a very beautiful vase.
- B Pinky said that it is a very beautiful vase indeed.
- C Pinky exclaimed that it was a very beautiful vase.
- D Pinky reported that it was an indeed a beautiful vase.

Answer: A

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Question 52

Select the word with the correct spelling.

- A blamefull
- B procsimal
- C hilocky
- D miracles

Answer: D

Question 53

Select the synonym of bristle

- A thorn
- B tranquil
- C friction
- D sleek

Answer: A

Question 54

In the following question, out of the four alternatives, select the alternative which is the best substitute of the phrase.
the lower jawbone in mammals and fishes

- A trunk
- B snout
- C beak
- D mandible

Answer: D

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Question 55

Rearrange the parts of the sentence in correct order.

A saint or a satyagrahi

P-freezing her acts of goodness

Q-is often put on a pedestal

R-in time

A PQR

B PRQ

C QPR

D RQP

Answer: C

Question 56

Select the antonym of castigated

A approve

B rate

C flay

D drub

Answer: A

Question 57

Select the antonym of deliberate

A judge

B imprudent

C cogitate

D argue

Answer: B

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Question 58

Improve the bracketed part of the sentence. I couldn't help but (had to cry) at his sad story.

A cry

B cried

C was crying

D no improvement

Answer: A

Question 59

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

- A Work hard and succeed in life
- B An expression used when waking someone up
- C Try harder to overcome life's problems
- D Be of spotless character

Answer: B

Question 60

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.

With his political, the Party President deftly handled the rebellion.

- A temperament
- B sagacity
- C attitude
- D inexperience

Answer: B

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Question 61

In the following question, out of the four alternatives, select the alternative which is the best substitute of the phrase.
urge someone to act in a violent or unlawful way.

- A taunt
- B solicit
- C incite
- D psych

Answer: C

Question 62

Rearrange the parts of the sentence in correct order.

Gandhi often

P-was unnecessary violence

Q-withdrew from an act of Satyagraha if he

R-felt there

- A PRQ
- B PQR
- C RQP

D QRP

Answer: D

Question 63

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 High Court judgethe orders passed by the district court.

A quashed

B squashed

C killed

D rented

Answer: A

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Question 64

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

Raining cats and dogs

A It is raining unusually hard

B To win a big lottery

C To get wealth beyond what one deserves

D To become filthy rich by honest means

Answer: A

Question 65

Select the synonym of confuse

A explicate

B perplex

C mix

D divert

Answer: B

Question 66

Select the word with the correct spelling.

A unweded

B informmer

C mongrels

D powdered

Answer: C

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Question 67

Improve the bracketed part of the sentence.

The thief escaped (from burning) as the noble King pardoned him.

- A of being burnt
- B from being burnt
- C from having being burnt
- D no improvement

Answer: B

Question 68

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.

The painting had not been painted by the famous painter.

- A The painting had never been painted by the painter who was famous.
- B The painter who was famous not had painted the painting.
- C The famous painter had not painted the painting.
- D The famous painter could not have painted the painting.

Answer: C

Question 69

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'.

Was it him, that the teacher(A)/punished for not submitting(B)/his project on time(C)/No error

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

Answer: A

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Question 70

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'.

Entrance exams for the(A)/posts of associate professors(B)/will begin from Tuesday.(C)/No error

- A A

- B B
- C C
- D D

Answer: B

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.

Targeting inflation comes from a belief that policy should be(1).....and transparent, so that the private sector can factor this(2).....their decision-making. The question that this(3).....is: are there more "complicated" policies which(4).....better? I just note that one such policy is called "nominal income targeting".

.....(5).....it is more complicated and the private sector is deemed to be intellectually challenged.

Question 71

(1)

- A elaborate
- B detailed
- C easy
- D simple

Answer: D

Question 72

(2)

- A into
- B in
- C within
- D onto

Answer: A

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Question 73

(3)

- A shows
- B poses
- C brings along
- D ask

Answer: B

Question 74

(4)

- A have been
- B will be
- C were
- D are

Answer: D

Question 75

(5)

- A But
- B Hence
- C So
- D Because

Answer: A

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Mathematics

Instructions

For the following questions answer them individually

Question 76

At least one diagonal bisects the other in a

- A Trapezium
- B Isosceles trapezium
- C Kite
- D Cyclic quadrilateral

Answer: C

Explanation:

In a kite diagonals are perpendicular to each other and only one diagonal is bisected by the other.

=> Ans - (C)

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Question 77

25% discount is offered on an item. By applying a promo code the customer wins 4% cash back. What is the effective discount?

- A 28 percent
- B 29.12 percent
- C 29 percent

D 5 percent

Answer: A

Explanation:

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

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

$$= 100x - 25x = \text{Rs. } 75x$$

$$\text{Selling price after 4 \% cashback} = 75x - \frac{4}{100} \times 75x$$

$$= 75x - 3x = \text{Rs. } 72x$$

$$\Rightarrow \text{Total discounted amount} = 100x - 72x = \text{Rs. } 28x$$

$$\therefore \text{Effective discount} = \frac{28x}{100x} \times 100 = 28\%$$

\Rightarrow Ans - (A)

Question 78

What is the HCF (highest common factor) of 133 and 112?

A 15

B 7

C 19

D 16

Answer: B

Explanation:

Prime factorization of

$$133 = 7 \times 19$$

$$112 = 2^4 \times 7$$

There is only 1 common factor, and thus the HCF (highest common factor) = 7

\Rightarrow Ans - (B)

Question 79

Value of $(4a^2 + 12ab + 9b^2)/(2a + 3b)$ is

A $2a - 3b$

B $2a + 3b$

C $2a$

D $3b$

Answer: B

Explanation:

$$\text{Expression : } (4a^2 + 12ab + 9b^2)/(2a + 3b)$$

$$= \frac{(2a)^2 + (3b)^2 + (2 \cdot 2a \cdot 3b)}{(2a + 3b)}$$

$$= \frac{(2a + 3b)^2}{(2a + 3b)}$$

$$= 2a + 3b$$

=> Ans - (B)

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Question 80

What is the equation of line whose slope is $-\frac{1}{2}$ and passes through the intersection of the lines $x - y = -1$ and $3x - 2y = 0$?

- A $x + 2y = 8$
- B $3x + y = 7$
- C $x + 2y = -8$
- D $3x + y = -7$

Answer: A

Explanation:

Intersection point of the lines : $x - y = -1$ ----(i) and $3x - 2y = 0$ ----(ii)

Multiplying equation (i) by 2, => $2x - 2y = -2$ ----(iii)

Subtracting equation (iii) from (ii), => $x = 2$

=> $y = 2 + 1 = 3$

Thus, line passes through (2,3)

Equation of line having slope $m = -\frac{1}{2}$ and passing through point (x_1, y_1) is : $(y - y_1) = m(x - x_1)$

∴ Equation : $(y - 3) = -\frac{1}{2}(x - 2)$

=> $2y - 6 = -x + 2$

=> $x + 2y = 8$

=> Ans - (A)

Question 81

Curved surface area of a cylinder is 1232 sq cm. If circumference of its base is 154 cm, then what will be the height of the cylinder? (Take $\pi = \frac{22}{7}$)

- A 16 cm
- B 4 cm
- C 8 cm
- D 12 cm

Answer: C

Explanation:

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

Circumference of base = $2\pi r = 154$

Curved surface area of cylinder = $2\pi rh = 1232$

=> $154 \times h = 1232$

=> $h = \frac{1232}{154} = 8$ cm

=> Ans - (C)

Question 82

A student multiplied a number by $\frac{3}{10}$ instead of $\frac{10}{3}$. What is the percentage error in the calculation?

- A 1011.11 percent
- B 45.5 percent
- C 91 percent
- D 505.56 percent

Answer: C

Explanation:

Let the number be 30

When the student multiplied it by $\frac{3}{10}$, \Rightarrow original result = $\frac{3}{10} \times 30 = 9$

When the student multiply it by $\frac{10}{3}$, \Rightarrow New result = $\frac{10}{3} \times 30 = 100$

\Rightarrow Percentage error in calculation = $\frac{(100-9)}{100} \times 100$

$$= \frac{91}{100} = 91\%$$

\Rightarrow Ans - (C)

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Question 83

What is the area of the sector whose central angle is 90° and radius of the circle is 14 cm?

- A 308 sq cm
- B 77 sq cm
- C 154 sq cm
- D 231 sq cm

Answer: C

Explanation:

Central angle = $\theta = 90^\circ$ and radius = $r = 14$ cm

Area of sector = $\frac{\theta}{360} \times \pi r^2$

$$= \frac{90}{360} \times \frac{22}{7} \times (14)^2$$

$$= \frac{1}{4} \times 44 \times 14$$

$$= 11 \times 14 = 154 \text{ cm}^2$$

\Rightarrow Ans - (C)

Question 84

Coefficient of x^2 in $(x+9)(6-4x)(4x-7)$ is

- A 216
- B -4
- C -92

Answer: C

Explanation:

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

$$\text{Expression : } (x + 9)(6 - 4x)(4x - 7)$$

$$= (6x - 4x^2 + 54 - 36x)(4x - 7)$$

$$= (-4x^2 - 30x + 54)(4x - 7)$$

$$= 4x(-4x^2 - 30x + 54) - 7(-4x^2 - 30x + 54)$$

$$= -16x^3 - 120x^2 + 216x + 28x^2 + 210x - 378$$

$$= -16x^3 - 92x^2 + 426x - 378$$

\therefore Coefficient of $x^2 = -92$

\Rightarrow Ans - (C)

Question 85

Given: $5x - 3(2x-7) > 3x - 1 < 7 + 4x$; then x can take which of the following values?

A 6

B 9

C -6

D -9

Answer: C

Explanation:

$$\text{Expression 1 : } 5x - 3(2x-7) > 3x - 1$$

$$\Rightarrow 5x - 6x + 21 > 3x - 1$$

$$\Rightarrow 3x + x < 21 + 1$$

$$\Rightarrow 4x < 22$$

$$\Rightarrow x < \frac{11}{2} \text{ -----(i)}$$

$$\text{Expression 2 : } 3x - 1 < 7 + 4x$$

$$\Rightarrow 4x - 3x > -1 - 7$$

$$\Rightarrow x > -8 \text{ -----(ii)}$$

Combining inequalities (i) and (ii), we get : $-8 < x < \frac{11}{2}$

The only value that x can take among the options = -6

\Rightarrow Ans - (C)

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Question 86

A missile travels at 1422 km/h. How many metres does it travel in one second?

A 395 metres

- B 400 metres
- C 364 metres
- D 319 metres

Answer: A

Explanation:

Speed of missile = 1422 km/hr

$$\Rightarrow \text{Speed in m/s} = 1422 \times \frac{5}{18}$$

$$= 5 \times 79 = 395 \text{ m/s}$$

\therefore In 1 second, it travels 395 metres

\Rightarrow Ans - (A)

Question 87

The bus fare between two cities is increased in the ratio 17:20. Find the increase in the fare, if the original fare is Rs. 425

- A Rs 500
- B Rs 100
- C Rs 200
- D Rs 75

Answer: D

Explanation:

Let original fare = Rs. $17x$

\Rightarrow New fare = Rs. $20x$

Also, original fare = 425 = $17x$

$$\Rightarrow x = \frac{425}{17} = 25$$

\therefore Increase in fare = $20x - 17x = 3x$

$$= 3 \times 25 = \text{Rs. } 75$$

\Rightarrow Ans - (D)

Question 88

$(\sec A - 1)/(\sec A + 1)$ is equal to?

- A $(1 - \sin A)/(1 + \sin A)$
- B $(1 + \cos A)/(1 - \cos A)$
- C $(1 + \sin A)/(1 - \sin A)$
- D $(1 - \cos A)/(1 + \cos A)$

Answer: D

Explanation:

Expression : $(\sec A - 1)/(\sec A + 1)$

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

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

$$= \left(\frac{1-\cos A}{\cos A} \right) \times \left(\frac{\cos A}{1+\cos A} \right)$$

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

=> Ans - (D)

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Question 89

If $\cos 3A = X$, then value of X ?

A $4\cos^3 A - 3\cos A$

B $4\cos^3 A + 3\cos A$

C $3\cos A - 4\cos^3 A$

D $\cos A + 4\cos^3 A$

Answer: A

Explanation:

Expression : $\cos 3A = X$

$$= \cos(2A + A)$$

$$= \cos(2A)\cos A - \sin(2A)\sin A$$

$$= (2\cos^2 A - 1)\cos A - (2\sin A \cos A)\sin A$$

$$= 2\cos^3 A - \cos A - (\sin^2 A)2\cos A$$

$$= 2\cos^3 A - \cos A - 2\cos A(1 - \cos^2 A)$$

$$= 2\cos^3 A - \cos A - 2\cos A + 2\cos^3 A$$

$$= 4\cos^3 A - 3\cos A$$

=> Ans - (A)

Question 90

In a class of 66 students there are 33 girls. The average weight of these girls is 61 Kg and average weight of the full class is 66 kgs. What is the average weight of the boys of the class?

A 72

B 73

C 69

D 71

Answer: D

Explanation:

Total number of students = 66 and number of girls = 33

$$\Rightarrow \text{Number of boys in class} = 66 - 33 = 33$$

Average weight of girls = 61 kg

$$\Rightarrow \text{Total weight of girls} = 61 \times 33 = 2013 \text{ kg}$$

Similarly, total weight of full class = $66 \times 66 = 4356 \text{ kg}$

$$\Rightarrow \text{Total weight of boys} = 4356 - 2013 = 2343 \text{ kg}$$

$$\therefore \text{Average weight of boys} = \frac{2343}{33} = 71 \text{ kg}$$

=> Ans - (D)

Question 91

A can do a work in 20 days and B in 10 days. If they work on it together for 5 days, then what fraction of work is left.

A 4/9

B 1/4

C 1/5

D 2/9

Answer: B

Explanation:

Let total work to be done = 20 units

$$\text{A's efficiency} = \frac{20}{20} = 1 \text{ unit/day}$$

$$\text{B's efficiency} = \frac{20}{10} = 2 \text{ units/day}$$

$$(\text{A} + \text{B})\text{'s 1 day's work together} = 1 + 2 = 3 \text{ units/day}$$

$$\text{Now, work done by them together in 5 days} = 5 \times 3 = 15 \text{ units}$$

$$\Rightarrow \text{Work left} = 20 - 15 = 5 \text{ units}$$

$$\therefore \text{Fraction of work that is left} = \frac{5}{20} = \frac{1}{4}$$

=> Ans - (B)

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Question 92

Product of digits of a 2-digit number is 15. If we add 18 to the number, the new number obtained is a number formed by interchange of the digits. Find the number.

A 35

B 15

C 51

D 21

Answer: A

Explanation:

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

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

$$\text{Product of digits} = x \times y = 15 \text{ -----(i)}$$

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

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

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

Solving equation (i) and (ii), we get : $x = 3$ and $y = 5$

\therefore Number = 35

=> Ans - (A)

Question 93

What is the value of $\tan 7\pi/6$?

A $1/\sqrt{3}$

B $-1/\sqrt{3}$

C $\sqrt{3}$

D $-\sqrt{3}$

Answer: A

Explanation:

Expression : $\tan 7\pi/6$

$$= \tan\left(\pi + \frac{\pi}{6}\right)$$

$$= \tan\left(\frac{\pi}{6}\right) = \frac{1}{\sqrt{3}}$$

=> Ans - (A)

Question 94

When a discount of 20% is given on a jacket, the profit is 28%. If the discount is 13%, then the profit is

A 39.2 percent

B 41 percent

C 42.8 percent

D 37.4 percent

Answer: A

Explanation:

Let marked price of jacket = Rs. 100

When discount of 20% is given, => Selling price of jacket = $\frac{(100-20)}{100} \times 100 = Rs.80$

Let cost price = Rs. x

$$\Rightarrow \text{Profit \%} = \frac{80-x}{x} \times 100 = 28$$

$$\Rightarrow \frac{80-x}{x} = \frac{28}{100} = \frac{7}{25}$$

$$\Rightarrow 2000 - 25x = 7x$$

$$\Rightarrow 7x + 25x = 32x = 2000$$

$$\Rightarrow x = \frac{2000}{32} = Rs. 62.5$$

If discount is 13%, => Selling price = $\frac{(100-13)}{100} \times 100 = Rs.87$

$$\Rightarrow \text{Profit \%} = \frac{87-62.5}{62.5} \times 100$$

$$= \frac{2450}{62.5} \approx 39.2\%$$

=> Ans - (A)

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Question 95

The point R(a,b) is first reflected in origin to R1 and R1 is reflected in X-axis to (-5,1). The co-ordinates of point R are?

- A (5,-1)
- B (-1,5)
- C (1,-5)
- D (5,1)

Answer: D

Explanation:

R(a,b) after reflection at the origin = (-a,-b)

Reflection of point (-a,-b) in the x-axis is (-a,b)

According to ques,

$$\Rightarrow (-a, b) = (-5, 1)$$

$$\Rightarrow -a = -5 \text{ and } b = 1$$

\therefore Coordinates of Point R = (5,1)

\Rightarrow Ans - (D)

Question 96

Deepinder lent Rs 8200 to Jairaj for 16 years and Rs 4900 to Karna for 15 years on simple interest at the same rate of interest and received Rs 19446.5 in all from both of them as interest. The rate of interest per annum is:

- A 10 percent
- B 10.5 percent
- C 9.5 percent
- D 11 percent

Answer: C

Explanation:

Let rate of interest per annum = $r\%$

Sum lent to Jairaj = Rs. 8200 for 16 years and Rs. 4900 to Karna for 15 years

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

$$\Rightarrow \text{Total interest} = \left(\frac{8200 \times r \times 16}{100} \right) + \left(\frac{4900 \times r \times 15}{100} \right) = 19446.5$$

$$\Rightarrow 1312r + 735r = 19446.5$$

$$\Rightarrow 2047r = 19446.5$$

$$\Rightarrow r = \frac{19446.5}{2047} = 9.5\%$$

\Rightarrow Ans - (C)

Question 97

Refer the below data table and answer the following question.

Division / Standard	Boys	Girls
Division A / Standard 5	30	40
Division B / Standard 5	10	20
Division C / Standard 5	40	10
Division A / Standard 6	13	10
Division B / Standard 6	15	15
Division C / Standard 6	20	20

What is the ratio of boys to girls ?

- A 23 : 29
- B 31 : 25
- C 25 : 31
- D 128 : 115

Answer: D

Explanation:

Total number of boys = $30 + 10 + 40 + 13 + 15 + 20 = 128$

Total number of girls = $40 + 20 + 10 + 10 + 15 + 20 = 115$

=> Required ratio = $\frac{128}{115}$

= 128 : 115

=> Ans - (D)

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Question 98

Refer the below data table and answer the following question.

Marks	Number of Students
40 and above	11
30 and above	32
30 and above	48
10 and above	69
0 and above	87

How many students have scored marks 20 or more but less than 40 ?

- A 48
- B 37
- C 32
- D 80

Answer: B

Explanation:

Number of students who scored :

40 and above = 11

30 and above = $32 - 11 = 21$

20 and above = $48 - 32 = 16$

10 and above = $69 - 48 = 21$

0 and above = $87 - 69 = 18$

=> Students who have scored marks 20 or more but less than 40 = $16 + 21 = 37$

=> Ans - (B)

Question 99

Refer the below data table and answer the following question.

Year	GDP growth rate for the year (in %)
2011	-7
2012	7
2013	-6
2014	5
2015	-4

If the GDP of the country was \$1 trillion at the end of 2011, what was it at the beginning of 2013?

- A \$1.07 trillion
- B \$0.94 trillion
- C \$0.93 trillion
- D \$1.01 trillion

Answer: A

Explanation:

GDP at the beginning of 2013 is equal to the GDP at the end of 2012

=> GDP growth rate in 2012 = 7%

GDP at the end of 2011 = GDP at the beginning of 2012 = \$1 trillion

$$\begin{aligned} \therefore \text{GDP at the beginning of 2013} &= \frac{100+7}{100} \times 1 \text{ trillion} \\ &= \frac{107}{100} = \$1.07 \text{ trillion} \end{aligned}$$

=> Ans - (A)

Question 100

Refer the below data table and answer the following question.

Subjects	Marks Scored
English	70
Hindi	55
Math	30
Science	35
Arts	60

Five points are to be deducted from this students average of marks scored because of poor attendance. What will be this student's net average marks scored?

- A 35
- B 40
- C 45
- D 50

Answer: C

Explanation:

Total marks scored by the student = $70 + 55 + 30 + 35 + 60 = 250$

=> Average marks = $\frac{250}{5} = 50$

But due to poor attendance, 5 marks are deducted

∴ Net average = $50 - 5 = 45$

=> Ans - (C)

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