



SSC CHSL 27 Jan 2017 Morning 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.

Sukhoi : Russia :: Tejas : ?

- A Pakistan
- B India
- C Iran
- D Israel

Answer: B

Explanation:

The Sukhoi Company is a Russian aircraft manufacturer, similarly The Tejas is an *Indian* single-jet engine.

=> Ans - (B)

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Question 2

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

? : TV :: DE : HJ

- A IJ
- B JK
- C GE
- D LI

Answer: B

Explanation:

Expression = ? : TV :: DE : HJ

The pattern followed is that the numerical value of the alphabets is doubled.

$$D = 4 \Rightarrow 4 \times 2 = 8 \equiv H$$

$$E = 5 \Rightarrow 5 \times 2 = 10 \equiv J$$

$$\text{Similarly, } J = 10 \Rightarrow 10 \times 2 = 20 \equiv T$$

$$K = 11 \Rightarrow 11 \times 2 = 22 \equiv V$$

$$\therefore JK : TV$$

=> Ans - (B)

Question 3

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

HJ : NO :: BD : ?

- A MP

- B IJ
- C HI
- D PQ

Answer: C

Explanation:

Expression = HJ : NO :: BD : ?

The pattern followed is :

H	J
(+6)	(+5)
N	O

Similarly, BD : HI

B	D
(+6)	(+5)
H	I

=> Ans - (C)

Question 4

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

432 : 9 :: 237 : ?

- A 49
- B 12
- C 23
- D 44

Answer: B

Explanation:

Expression = 432 : 9 :: 237 : ?

The number on the right is equal to the sum of digits of the first number.

Eg :- $4 + 3 + 2 = 9$

Similarly, $2 + 3 + 7 = 12$

=> Ans - (B)

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Question 5

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

- A Lotus Temple
- B India Gate
- C Qutub Minar
- D Gateway of India

Answer: D

Explanation:

Lotus Temple, India Gate and Qutub Minar are located in Delhi while Gateway of India is in Mumbai, hence it is the odd one out.

=> Ans - (D)

Question 6

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

A NO

B TV

C IK

D KM

Answer: A

Explanation:

(A) : N (+1 letter) = O

(B) : T (+2 letters) = V

(C) : I (+2 letters) = K

(D) : K (+2 letters) = M

=> Ans - (A)

Question 7

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

A 3721

B 8648

C 9545

D 3421

Answer: D

Explanation:

The pattern followed is that the product of first two digits is equal to the last two digits, but $3 \times 4 \neq 21$, hence 3421 is the odd one out.

=> Ans - (D)

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Question 8

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

A 42

B 24

C 27

D 43

Answer: D

Explanation:

Among the given numbers, only 43 is prime, rest are composite, hence 43 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. Ounce, Liter, Gallon, ?

- A Centiliter
- B Kiloliter
- C Deciliter
- D Decaliter

Answer: D

Explanation:

The order is increasing order of quantity.

= Ounce -> Liter -> Gallon -> Decaliter

=> 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. 4, 10, 33, 136, ?

- A 260
- B 675
- C 685
- D 390

Answer: C

Explanation:

The pattern followed is :

$$4 \times 2 + 2 = 10$$

$$10 \times 3 + 3 = 33$$

$$33 \times 4 + 4 = 136$$

$$136 \times 5 + 5 = \mathbf{685}$$

=> Ans - (C)

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Question 11

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) Disney has launched 'Hour of Code' campaign in India for teaching computer programming to school children.
- (II) Children watch cartoon for their entertainment and learning.

Conclusion:

- (I) Children can connect well through specific cartoon characters.
- (II) The mass campaign of learning to school kids can be effective only through making it interesting.

- A Only conclusion II follows
- B Conclusion I and II both follow
- C Neither I nor II follow
- D Only conclusion I follows

Answer: B

Explanation:

Children watch cartoon for entertainment. They connect well if it is interesting. So children can connect well through specific cartoon characters. Hence conclusion I follows the given statements.

Children get bored easily if it is not interesting. So the mass campaign of learning to school kids can be effective only through making it interesting.

∴ Conclusion I and II both follow the given statements.

Hence, the correct answer is Option B

Question 12

A series is given with one term missing. Choose the correct alternative from the given ones that will complete the series. TU, AB, HI, ?

- A MN
- B OP
- C CD
- D PQ

Answer: B

Explanation:

Expression : TU, AB, HI, ?

The pattern followed in each letter of the terms is :

1st letter : T (+7 letters) = A (+7 letters) = H (+7 letters) = O

2nd letter : U (+7 letters) = B (+7 letters) = I (+7 letters) = P

Thus, missing term = OP

=> Ans - (B)

Question 13

A series is given with one term missing. Choose the correct alternative from the given ones that will complete the series. RST, XYZ, DEF, ?

- A KLM
- B GHI
- C JKL
- D IJK

Answer: C

Explanation:

Expression : RST, XYZ, DEF, ?

The pattern followed in each letter of the terms is :

1st letter : R (+6 letter) = X (+6 letter) = D (+6 letter) = J

2nd letter : S (+6 letter) = Y (+6 letter) = E (+6 letter) = K

3rd letter : T (+6 letter) = Z (+6 letter) = F (+6 letter) = L

Thus, missing term = **JKL**

=> Ans - (C)

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Question 14

Amarjeet scored 92, 98 and 90 marks in Chemistry, Mathematics and Physics respectively. The maximum marks in each subject are 100. Determine his overall percentage for the three subjects.

- A 92.34
- B 59.56
- C 93.33
- D 84.44

Answer: C

Explanation:

Total marks scored by Amarjeet in Chemistry, Mathematics and Physics respectively = $92 + 98 + 90 = 280$

Total aggregate marks of 3 subjects = $3 \times 100 = 300$

=> Required percentage = $\frac{280}{300} \times 100$

= $\frac{280}{3} = 93.33$

=> Ans - (C)

Question 15

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

- i. Cooperate
- ii. Cultivate
- iii. Culmination
- iv. Corporate

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

C ii, iii, i, iv

D i, iv, iii, ii

Answer: D

Explanation:

As per the order of dictionary :

= Cooperate -> Corporate -> Culmination -> Cultivate

≡ i, iv, iii, ii

=> Ans - (D)

Question 16

In a certain code language, "KINGFISHER" is written as "+\$@*!\$><^?". How is "NEIGH" written in that code language?

A ^@\$*<

B @\$*<

C @\$*<

D @\$^*<

Answer: C

Explanation:

The codes for each letter is given :

N -> @

E -> ^

I -> \$

G -> <

H -> *

Thus, NEIGH : @\$*<

=> Ans - (C)

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Question 17

Find the Missing Number

H	J	V
I	M	U
17	?	43

A 18

B 17

C 23

D 22

Answer: C

Explanation:

H+I = 8+9 = 17

$$V+U = 22+21 = 43$$

Using the same logic,

$$J+M = 10+13 = 23$$

∴ The required value is 23

Hence, the correct answer is Option C

Question 18

If "*" denotes "added to", "&" denotes "divided by", "@" denotes "multiplied by" and "%" denotes "subtracted from", then $136 \& 8 @ 7 \% 3 * 7 = ?$

A 143

B 123

C 125

D 140

Answer: B

Explanation:

Expression : $136 \& 8 @ 7 \% 3 * 7 = ?$

$$\equiv 136 \div 8 \times 7 - 3 + 7$$

$$= (17 \times 7) + 4$$

$$= 119 + 4 = 123$$

=> Ans - (B)

Question 19

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

A gfff

B gfhh

C gfhf

D fghg

Answer: C

Explanation:

The pattern followed is that in groups of 4, the terms 'efgh' is repeated.

= efgh efgh efgh

=> Ans - (C)

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Question 20

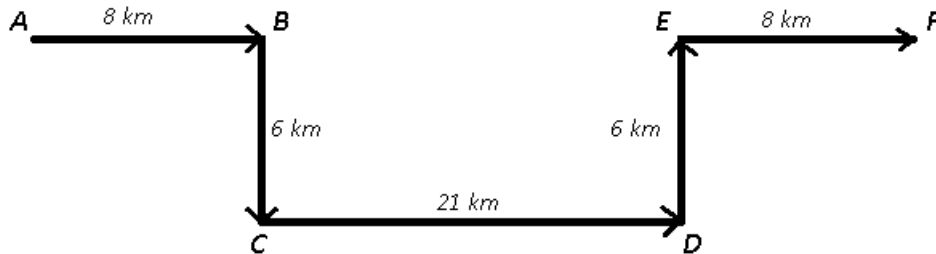
Rahul travels 8km towards east, turns right and travels another 6km, and then takes two successive left turns covering 21km and 6km in each turn respectively. Finally, he takes a right turn and travels 8km further. How far is he now from his original position?

A 35km

- B 25km
- C 37km
- D 40km

Answer: C

Explanation:



Rahul starts from point A and travels 8 km towards east to reach B, then he turns right and travels southwards for 6 km to reach C, and then takes two successive left turns covering 21 km and 6 km in each turn respectively. Finally, he takes a right turn and travels 8 km towards east and stop at point F.

Thus, $AF = 8 + 21 + 8 = 37$ km

=> Ans - (C)

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 21, 67, etc., and R can be represented by 66, 57, etc. Similarly, you have to identify the set for the word RAIN.

MATRIX 1

	0	1	2	3	4
0	T	R	A	N	I
1	W	U	N	H	L
2	I	N	S	G	O
3	N	Y	P	O	E
4	H	T	O	I	A

MATRIX 2

	5	6	7	8	9
5	T	A	R	I	H
6	X	R	N	W	B
7	C	S	Y	E	R
8	S	N	T	M	S
9	H	T	O	I	A

- A 66, 96, 20, 87
- B 79, 58, 44, 21
- C 98, 56, 12, 58
- D 01, 44, 58, 67

Answer: D

Explanation:

- (A) : 66, 96, 20, 87 = RTIT
- (B) : 79, 58, 44, 21 = RIAN
- (C) : 98, 56, 12, 58 = IANI
- (D) : 01, 44, 58, 67 = **RAIN**

=> Ans - (D)

Question 22

Ruby, Vishal's sister, has a son Jitendra and a daughter Sakshi. Priya is the sister of Jitendra's mother. How is Sakshi related to Priya?

- A Mother
- B Granddaughter
- C Sister
- D Niece

Answer: D

Explanation:

Ruby' son is Jitendra and daughter is Sakshi.

Priya is the sister of Jitendra's mother, => Priya is Ruby's sister.

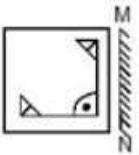
=> Sakshi is Priya's niece.

=> 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 ?



- A
- B
- C
- D

Answer: A

Explanation:

If a mirror is placed on the line MN,

The triangle facing the corner at top right faces the corner at top left in the mirror image

The triangle facing the corner at bottom left faces the corner at bottom right in the mirror image

∴ The required mirror image is shown below

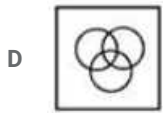


Hence, the correct answer is Option A

Question 24

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

Cosmetics, Talc, Eyeliner

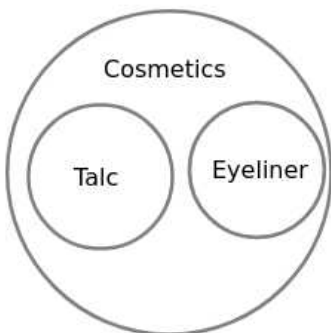


Answer: A

Explanation:

Both Talc and Eyeliner are Cosmetics

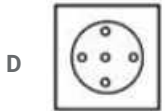
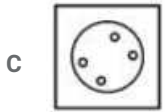
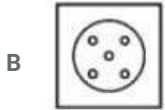
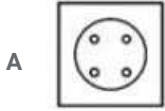
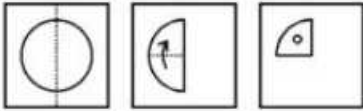
∴ The diagram that best represents the relationship is shown below



Hence, the correct answer is Option A

Question 25

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



Answer: A

Explanation:

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

When the paper is unfolded first to the bottom, a circle will appear similarly at the bottom part.

When the paper is unfolded again to the right, one circle each will appear similarly at the top right and bottom right part of the paper.

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



Hence, the correct answer is Option A

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General Awareness

Instructions

For the following questions answer them individually

Question 26

Who built the Group of Monuments at Pattadakal?

- A Chola Kings
- B Pallava Kings
- C Chera Kings
- D Chalukya Kings

Answer: D

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Question 27

A. R. Rahman won Oscars for the movie "Slumdog Millionaire" in the category of

- A Best Sound Mixing
- B Best Original Score
- C Best Picture
- D Best Foreign Language Film

Answer: B

Question 28

Blood leaving the liver and moving towards the heart has a higher concentration of

- A Lipids
- B Urea
- C Bile Pigments
- D Carbon dioxide

Answer: C

Question 29

Bulb is a modification of which part of a plant?

- A The root
- B The stem
- C The radicle
- D The fruit

Answer: B

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Question 30

Which of the following carries blood away from the heart to different body parts?

- A Arteries
- B Nerves
- C Capillaries
- D Veins

Answer: A

Question 31

Chemical Formula of Water is

- A O₂H
- B OH
- C HO
- D H₂O

Answer: D

Question 32

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

- A Phosphorus
- B Neon
- C Magnesium
- D Sodium

Answer: A

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Question 33

Which of these is not a web browser?

- A Chrome
- B Firefox
- C Safari
- D Linux

Answer: D

Question 34

Dzongkha is the official Language of

- A Indonesia
- B Cambodia
- C Bhutan
- D Myanmar

Answer: C

Question 35

If price of an article decreases from Rs 800 to Rs 700, quantity demanded increases from Q₁ units to 70 units. If point elasticity of demand is -1.333 find Q₁?

- A 80 units
- B 90 units
- C 60 units
- D 50 units

Answer: C

Explanation:

Point price elasticity of demand = (Change in quantity / Change in price)

$$-1.33 = \frac{(70 - Q_1) / Q_1}{(-100 / 800)}$$

$$560 - 8Q_1 = 1.33Q_1$$

$$560 = 9.33Q_1$$

$$Q_1 = 60.02$$

Hence, option C is the correct answer.

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Question 36

In perfect competition

- A Products can be similar or different
- B Producer can control price by controlling production
- C Demand curve is perfectly elastic
- D All firms make economic profit in the long run

Answer: C

Question 37

Amrabad Tiger Reserve is in which state?

- A Maharashtra
- B Andhra Pradesh
- C Tamil Nadu
- D West Bengal

Answer: B

Question 38

The series of processes by which nitrogen and its compounds are interconverted in the environment and in living organisms is called

- A Absorption of Nitrogen
- B Ammonification

C Nitrogen Fixation

D Nitrogen Cycle

Answer: D

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Question 39

The Speaker of the sixth Lok Sabha who later became the President of India was

A VP Singh

B Neelam Sanjeeva Reddy

C V.S Ramadevi

D Sukumar Sen

Answer: B

Question 40

Which is the deepest trench (steep depression in ocean) in the world?

A Sean trench

B Mariana trench

C Arabic trench

D Cism trench

Answer: B

Question 41

Ten Degree channel is located between

A Srinagar and Leh

B Darjeeling and Gangtok

C Little Andaman and Car Nicobar

D Goa and Bangalore

Answer: C

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Question 42

The Kalinga war was fought in

A 161 BC

B 261 BC

C 361 BC

D 461 BC

Answer: B

Question 43

Tipu Sultan was also known as the Lion of

A Bangalore

B Delhi

C Kochi

D Mysore

Answer: D

Question 44

Who Invented Dishwasher?

A Vint Cerf

B David Chaum

C Georges Claude

D Josephine Cochrane

Answer: D

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Question 45

Which law states that the induced e.m.f. is directly proportional to the rate of change of magnetic flux linkage or rate of cutting of magnetic flux linkage?

A Lenz's Law

B Hooke's Law

C Ohm's Law

D Faraday's Law

Answer: D

Question 46

If the vector sum of torques acting on a system is zero, then the object is in

A static equilibrium

B translatory equilibrium

C linear equilibrium

D rotational equilibrium

Answer: D

Question 47

The original 1950 Constitution of India is preserved in

- A President House
- B Prime Minister House
- C Parliament House
- D Archaeological Survey of India

Answer: C

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Question 48

Article 231 of the Indian Constitution "Establishment of a common High Court for two or more States" deals with?

- A the State Government
- B the directive principles of state policy
- C the Union Government
- D the fundamental rights of the Indian Citizen

Answer: A

Question 49

When was the first cricket test match played?

- A 1677
- B 1777
- C 1877
- D 1977

Answer: C

Question 50

Who is the author of "Our Impossible Love"?

- A Preeti Shenoy
- B Ravinder Singh
- C Keshav Aneel
- D Durjoy Datta

Answer: D

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English

Instructions

For the following questions answer them individually

Question 51

Rearrange the parts of the sentence in correct order.

Even more astonishingly, P-he cast as "beautiful"

Q-he went on to

R-describe the vote

A RQP

B RPQ

C PRQ

D QRP

Answer: D

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Question 52

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

His mother hoped that(A)/Bunty would grow up to be(B)/the wise and famous man.(C)/No error(D)

A A

B B

C C

D D

Answer: C

Question 53

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

The audience absolutely loved the play so much that theyafter every act.

A acclaimed

B applauded

C appreciated

D boosted

Answer: B

Question 54

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 two Prime Ministers are signing the accord.

- A The accord was being signed by the two Prime Ministers.
- B The accord is being signed by the two Prime Ministers.
- C The accord has been signed by the two Prime Ministers.
- D The accord had been signed by the two Prime Ministers.

Answer: B

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Question 55

Select the word with the correct spelling.

- A bilowed
- B prosadic
- C immanent
- D quibles

Answer: C

Question 56

Select the antonym of stupor

- A swoon
- B consciousness
- C trance
- D apathy

Answer: B

Question 57

Improve the bracketed part of the sentence. Each of our (trainee pay theirs) tuition fee at the beginning of the course.

- A trainees pay theirs
- B trainee pays theirs
- C trainees pays his
- D no improvement

Answer: C

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Question 58

In the following question, out of the four alternatives, select the alternative which is the best substitute of the phrase. To show approval or praise by clapping.

- A To extol
- B To eulogise
- C To applaud
- D To hail

Answer: C

Question 59

In the following question, out of the four alternatives, select the alternative which best expresses the meaning of the idiom/phrase. To beat a dead horse

- A To revive interest in a hopeless issue
- B A cruel master will expect a slave to work even after his death
- C To extract everything from a resource till it fails
- D Doing a cruel act

Answer: A

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.

.....In a clearing that started a few feet away was a small of cattle.

- A herd
- B flock
- C colony
- D drove

Answer: A

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Question 61

Select the synonym of bouffant

- A braid
- B barren
- C hirsute

D glabrous

Answer: A

Question 62

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'.

Reeta is a spiritually-centred person(A)/who loves every being(B)/she comes in contact with.(C)/No error(D)

A A

B B

C C

D D

Answer: D

Question 63

Rearrange the parts of the sentence in correct order.

Hit hard by austerity measures

P-government, they lead

Q-of the Conservative

R-lives embedded in anxiety

A RPQ

B QRP

C QPR

D PRQ

Answer: C

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Question 64

Select the synonym of dependant

A absolute

B reliant

C autonomous

D nonpartisan

Answer: B

Question 65

Improve the bracketed part of the sentence. Perhaps the wolf (was waiting) to spring upon him.

A had been waited

- B has waited
- C could be waiting
- D no improvement

Answer: D

Question 66

Select the antonym of "appalling"

- A reassuring
- B ghastly
- C dire
- D mean

Answer: A

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Question 67

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

- A Not accepting the real issue and solving minor problems
- B To avoid getting to the point of an issue
- C To run around in circles and never accomplishing results
- D Avoiding coming face to face with a problem, escaping

Answer: B

Question 68

In the following question, out of the four alternatives, select the alternative which is the best substitute of the phrase. **(of a cat) to make a low continuous vibratory sound expressing contentment.**

- A to buzz
- B to roar
- C to meow
- D to purr

Answer: C

Question 69

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. **"Won't you help me to carry this suitcase?" said I to my wife.**

- A I asked my wife that if she would not help me in carrying that suitcase.

- B I asked my wife if she would not help me to carry that suitcase.
- C I asked my wife that whether she would not help me to carry this suitcase.
- D I asked my wife that if she would be helping me to carry this suitcase.

Answer: B

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Question 70

Select the word with the correct spelling.

- A stripeer
- B bordered
- C variance
- D heretics

Answer: D

Explanation:

Start Group:

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.

We also need to work towards a re-engineering of procedures. It.....that fear of being scrutinised by the office of the Central Vigilance Commissioner has.....loan officers in the no use public sector into inaction. It is having a publicly-owned banking.....that does not extend credit to sound projects on grounds of scrutiny..... Itthat fear of being scrutinised by the office.

Question 71

.....that fear of being scrutinised by the office

- A has been suggested
- B were suggested
- C are being suggested
- D is suggesting

Answer: A

Question 72

loan officers in the public sector into inaction.

- A encouraged
- B emboldened
- C petrified
- D energized

Answer: C

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Question 73

Central Vigilance Commissioner hasloan officers in the public sector into inaction.

- A for
- B of
- C as
- D to

Answer: B

Question 74

.....that does not extend credit

- A system
- B scheme
- C structure
- D ideology

Answer: A

Question 75

sound projects on grounds of

- A pensive
- B retrospective
- C reflective
- D contemplative

Answer: B

Explanation:

End Group:

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Mathematics

Instructions

For the following questions answer them individually

Question 76

A student multiplied a number by $\frac{6}{7}$ instead of $\frac{7}{6}$. What is the percentage error in the calculation?

- A 36.11 percent

- B 26.53 percent
- C 13.27 percent
- D 18.06 percent

Answer: B

Explanation:

Let the number be 42

When the student multiplied it by $\frac{6}{7}$, \Rightarrow original result = $\frac{6}{7} \times 42 = 36$

When the student multiply it by $\frac{7}{6}$, \Rightarrow New result = $\frac{7}{6} \times 42 = 49$

\Rightarrow Percentage error in calculation = $\frac{(49-36)}{49} \times 100$

= $\frac{1300}{49} = 26.53\%$

\Rightarrow Ans - (B)

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Question 77

If $3x + 4(1-x) > 5x - 2 > 3x - 4$; then the value of x is

- A 2
- B -2
- C 0
- D -3

Answer: C

Explanation:

Expression 1 : $5x - 2 > 3x - 4$

$\Rightarrow 5x - 3x > 2 - 4$

$\Rightarrow 2x > -2$

$\Rightarrow x > -1$ -----(i)

Expression 2 : $3x + 4(1 - x) > 5x - 2$

$\Rightarrow -x + 4 > 5x - 2$

$\Rightarrow 5x + x < 4 + 2$

$\Rightarrow 6x < 6$

$\Rightarrow x < 1$ -----(ii)

Combining inequalities (i) and (ii), we get : $-1 < x < 1$

Thus, only value that x can take = 0

\Rightarrow Ans - (C)

Question 78

If $\cos 135^\circ = x$, then the value of x is

- A $-1/\sqrt{2}$

B $-\sqrt{3}/2$

C $-1/2$

D 2

Answer: A

Explanation:

Expression : $\cos 135^\circ = x$

$$= \cos(180 - 45) = -\cos(45^\circ)$$

$$= \frac{-1}{\sqrt{2}}$$

=> Ans - (A)

Question 79

A tent is to be built in the form of a cylinder of radius 7 m surmounted by a cone of the same radius. If the height of the cylindrical part is 8 m and slant height of the conical part is 12 m, how much canvas will be required to build the tent? Allow 20% extra canvas for folding and stitching. (Take $\pi = 22/7$)

A 1478.4 sq mts

B 2217.6 sq mts

C 369.6 sq mts

D 739.2 sq mts

Answer: D

Explanation:

Radius of cone = Radius of cylinder = $r = 7$ m

Height of cylinder = $h = 8$ m

Slant height of cone = $l = 12$ m

Canvas required = Curved surface area of cylinder + Curved surface area of cone

$$= 2\pi rh + \pi rl = (\pi r)(2h + l)$$

$$= \left(\frac{22}{7} \times 7\right)(2 \times 8 + 12)$$

$$= 22 \times 28 = 616m^2$$

Also, 20% extra canvas is required for folding and stitching

$$\therefore \text{Total canvas required} = \frac{120}{100} \times 616 = 739.2m^2$$

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Question 80

If 2 shirts are offered free on purchase of 3 shirts priced Rs 600 each, then what will be the effective discount on each shirt?

A 30 percent

B 66.67 percent

C 40 percent

D 25 percent

Answer: C

Explanation:

Cost price of 1 shirt = Rs. 600

Cost price of 5 shirts = $5 \times 600 = Rs.3,000$

If 2 shirts are offered free on purchase of 3 shirts, \Rightarrow Cost of 3 shirts = $3 \times 600 = Rs.1,800$

\Rightarrow Effective discount = $\frac{3000-1800}{3000} \times 100$

= $\frac{1200}{30} = 40\%$

\Rightarrow Ans - (C)

Question 81

A rice trader buys 12 quintals of rice for Rs 1,870. 15% rice is lost in transportation. At what rate should he sell to earn 20% profit?

A Rs 110.3 per quintal

B Rs 187 per quintal

C Rs 220 per quintal

D Rs 224 per quintal

Answer: C

Explanation:

Cost price = Rs. 1870 for 12 quintals

Quantity of rice with the trader after transportation lost = $\frac{85}{100} \times 12$

= 10.2 quintals

To have 20% profit, total selling price of the trader should be = $\frac{120}{100} \times 1870$

= Rs. 2244

\therefore Selling price per quintal = $\frac{2244}{10.2} = Rs.220$

\Rightarrow Ans - (C)

Question 82

By increasing the price of entry ticket to a fair in the ratio 13:16, the number of visitors to the fair has decreased in the ratio 11:9. In what ratio has the total collection increased or decreased?

A decreased in the ratio 144:143

B increased in the ratio 117:176

C increased in the ratio 143:144

D decreased in the ratio 176:117

Answer: C

Explanation:

Let cost of original ticket = Rs 13 and number of visitors = 110

\Rightarrow Original revenue = $13 \times 110 = Rs 1430$

After increase in cost of ticket

New cost of ticket = Rs 16 and number of visitors = 90

\Rightarrow New Revenue = $16 \times 90 = Rs 1440$

Since, new revenue is greater than original revenue, thus total collection has increased.

∴ Increase of total collection ratio = $\frac{1430}{1440} = 143 : 144$

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Question 83

Simplify $486b^3x^2a^4z^3/27a^3b^2z$

- A $18bx^2az^2$
- B $18bx^2a^2z$
- C $36ba^2z$
- D $36bxa^2z$

Answer: A

Explanation:

Expression : $486b^3x^2a^4z^3/27a^3b^2z$

$$= \frac{486}{27} \times [(b)^{3-2} \times (x)^2 \times (a)^{4-3} \times (z)^{3-1}]$$
$$= 18bx^2az^2$$

⇒ Ans - (A)

Question 84

Reflection of the point (4,-5) in the y-axis is

- A (4,5)
- B (-4,-5)
- C (4,-5)
- D (-4,5)

Answer: B

Explanation:

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

⇒ Reflection of point (4,-5) = (-4,-5)

⇒ Ans - (B)

Question 85

What is the value of $5/9 + 7/8$?

- A $103/72$
- B $97/42$
- C $12/17$
- D $15/13$

Answer: A

Explanation:

Expression : $\frac{5}{9} + \frac{7}{8}$

$$= \frac{(5 \times 8) + (7 \times 9)}{72}$$
$$= \frac{40 + 63}{72} = \frac{103}{72}$$

=> Ans - (A)

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Question 86

If $\sqrt{1 - \sin^2 A} = x$, then the value of x is

- A $\tan A$
- B $\cos A$
- C $\operatorname{cosec} A$
- D $\sec A$

Answer: B

Explanation:

Expression : $\sqrt{1 - \sin^2 A}$

Using $\sin^2 A + \cos^2 A = 1$

$$= \sqrt{\cos^2 A} = \cos A$$

=> Ans - (B)

Question 87

What is the equation of the line whose y -intercept is -3 and makes an angle of 45° with the positive x -axis?

- A $x - y = -3$
- B $x + y = 3$
- C $x - y = 3$
- D $x + y = -3$

Answer: C

Explanation:

Slope of line making an angle of 45° with the positive x -axis = $\tan(45^\circ) = \tan(45^\circ) = 1$

Equation of line having y -intercept = c and making slope m is $y = mx + c$

Here $c = -3$ and $m = 1$

$$\Rightarrow y = (1 \times x) + (-3)$$

$$\Rightarrow x - y = 3$$

=> Ans - (C)

Question 88

To travel 672 km, an Express train takes 14 hours more than Rajdhani. If however, the speed of the Express train is doubled, it takes 8 hours less than Rajdhani. The speed of Rajdhani is

- A 30.5 km/hr
- B 14.3 km/hr

C 38.7 km/hr

D 22.4 km/hr

Answer: D

Explanation:

Let speed of Rajdhani train = x km/hr and Express train = y km/hr

Using, time = distance/speed

$$\text{Acc. to ques, } \Rightarrow \frac{672}{y} - \frac{672}{x} = 14$$

$$\Rightarrow \frac{1}{y} - \frac{1}{x} = \frac{14}{672} = \frac{1}{48} \text{-----(i)}$$

If speed of express train is doubled = $2y$ km/hr

$$\Rightarrow \frac{672}{x} - \frac{672}{2y} = 8$$

$$\Rightarrow \frac{1}{x} - \frac{1}{2y} = \frac{8}{672} = \frac{1}{84} \text{-----(ii)}$$

Adding equations (i) and (ii), we get :

$$\Rightarrow \frac{1}{y} - \frac{1}{2y} = \frac{1}{48} + \frac{1}{84}$$

$$\Rightarrow \frac{1}{2y} = \frac{11}{336}$$

$$\Rightarrow y = \frac{168}{11} \text{ km/hr}$$

$$\therefore \text{Speed of Rajdhani} = \frac{1}{x} = \frac{11}{168} - \frac{1}{48}$$

$$\Rightarrow \frac{1}{x} = \frac{11-3.5}{168} = \frac{7.5}{168}$$

$$\Rightarrow x = \frac{168}{7.5} = 22.4 \text{ km/hr}$$

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Question 89

Among three numbers, the first is twice the second and thrice the third, If the average of three numbers is 517, then what is the difference between the first and the third number?

A 564

B 759

C 485

D 799

Answer: A

Explanation:

Let the first number be $6x$

\Rightarrow Second number = $3x$ and third number = $2x$

$$\Rightarrow \text{Average} = \frac{6x+3x+2x}{3} = 517$$

$$\Rightarrow 11x = 517 \times 3 = 1551$$

$$\Rightarrow x = \frac{1551}{11} = 141$$

\therefore Difference between first and third number = $6x - 2x = 4x$

$$= 4 \times 141 = 564$$

Question 90

If the amount received at the end of 2nd and 3rd year at Compound Interest on a certain Principal is Rs.29160, and Rs 31492.8 respectively, what is the rate of interest?

- A 4 percent
- B 8 percent
- C 16 percent
- D 13 percent

Answer: B

Explanation:

Given, amount received at the end of 2nd and 3rd year at Compound Interest on a certain Principal is Rs.29160 and Rs 31492.8 respectively

Let the rate of interest be R%

=> Interest on Rs.29160 at R% rate of interest for one year is Rs.31492.8

$$\Rightarrow 31492.8 - 29160 = 29160 \times 1 \times \frac{R}{100}$$

$$\Rightarrow R = \frac{2332.8}{29160} \times 100$$

$$\Rightarrow R = 8$$

Hence, Option B is correct answer

Question 91

What is the value of $\frac{\sin A \tan A}{1 - \cos A}$?

- A $1 - \sec A$
- B $1 + \sec A$
- C $1 + \cot A$
- D $1 - \cot A$

Answer: B

Explanation:

Expression : $\frac{\sin A \tan A}{1 - \cos A}$

$$= \frac{\sin A}{1 - \cos A} \times \frac{\sin A}{\cos A}$$

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

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

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

=> Ans - (B)

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Question 92

If $x + y = 12$ and $x^2 + y^2 = 94$, then xy is

- A 25
- B 50
- C 144
- D 238

Answer: A

Explanation:

Given : $(x + y) = 12$ and $x^2 + y^2 = 94$

Using $(x + y)^2 = x^2 + y^2 + 2xy$

$$\Rightarrow (12)^2 = 94 + (2 \times xy)$$

$$\Rightarrow 2xy = 144 - 94 = 50$$

$$\Rightarrow xy = \frac{50}{2} = 25$$

\Rightarrow Ans - (A)

Question 93

The measures of the four angles of a quadrilateral are in the ratio 1:2:4:5. What is the measure of the biggest angle?

- A 120°
- B 30°
- C 60°
- D 150°

Answer: D

Explanation:

Let the angles in the quadrilateral be $x, 2x, 4x$ and $5x$

Sum of the angles in the quadrilateral = 360°

$$\Rightarrow x + 2x + 4x + 5x = 12x = 360^\circ$$

$$\Rightarrow x = \frac{360}{12} = 30^\circ$$

$$\therefore \text{Biggest angle} = 5 \times 30 = 150^\circ$$

\Rightarrow Ans - (D)

Question 94

In which of the following quadrilaterals opposite angles are supplementary?

- A Rhombus
- B Parallelogram
- C Trapezium
- D Cyclic quadrilateral

Answer: D

Explanation:

In a cyclic quadrilateral, sum of opposite angles is 180° i.e. opposite angles are supplementary.

=> Ans - (D)

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Question 95

Mahanath works 2 times as fast as Sahay. If Sahay can complete a job alone in 21 days, then in how many days can they together finish the job?

- A 7 days
- B 6 days
- C 5 days
- D 2 days

Answer: A

Explanation:

Let total work to be done = 21 units

Sahay can complete the work alone in 21 days

$$\Rightarrow \text{Sahay's efficiency} = \frac{21}{21} = 1 \text{ unit/day}$$

Mahanath works 2 times as fast as Sahay

$$\Rightarrow \text{Mahanath's efficiency} = 2 \times 1 = 2 \text{ units/day}$$

Sahay and Mahanath 1 day's work = $1 + 2 = 3$ units/day

$$\therefore \text{Time taken by them together to complete the work} = \frac{21}{3} = 7 \text{ days}$$

Question 96

The sum of the digits of a 2-digit number is 11. If we add 45 to the number, the new number obtained is a number formed by interchange of the digits. What is the number?

- A 83
- B 38
- C 64
- D 46

Answer: B

Explanation:

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

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

$$\text{Sum of digits} = x + y = 11 \text{ -----(i)}$$

$$\text{According to question, } \Rightarrow 10x + y + 45 = 10y + x$$

$$\Rightarrow 9y - 9x = 45$$

$$\Rightarrow y - x = \frac{45}{9} = 5 \text{ -----(ii)}$$

$$\text{Adding equations (i) and (ii), we get : } 2y = 11 + 5 = 16$$

$$\Rightarrow y = \frac{16}{2} = 8$$

$$\text{Substituting in equation (i), } \Rightarrow x = 11 - 8 = 3$$

∴ Number = 38

Question 97

Refer the data and answer question below

	Boys	Girls
Medical	40	75
Engineering	40	30

What percent of the students who choose engineering are girls?

- A 28.57
- B 16.22
- C 42.86
- D 75

Answer: C

Explanation:

Number of girls who chose engineering = 30

Total number of engineers = 40 + 30 = 70

=> Percent of the girls who choose engineering = $\frac{30}{70} \times 100$

= $\frac{300}{7} \approx 42.86\%$

=> Ans - (C)

SSC CHSL Study Material

Question 98

Refer the data answer the questions

	Cumulative production
January	590
February	1010
March	1650
April	2090
May	2540
June	3060

how many cars were manufactured in the month of the April and may

- A 970
- B 890
- C 4630
- D 1080

Answer: B

Explanation:

Number of cars produced in :

January = 590

February = 1010 - 590 = 420

March = 1650 - 1010 = 640

$$\text{April} = 2090 - 1650 = 440$$

$$\text{May} = 2540 - 2090 = 450$$

$$\text{June} = 3060 - 2540 = 520$$

=> Number of cars that were manufactured in the month of the April and may = $440 + 450 = 890$

Question 99

Read the following and answer the given questions

Day of the week	Distance jogged (in km)
Monday	3.5
Tuesday	0.5
Wednesday	2
Thursday	1.5
Friday	1.5
Saturday	1
Sunday	2

If 400 calories have burned for jogging 5 kms then how many calories were burnt on this entire week

- A 960 calories
- B 1010 calories
- C 910 calories
- D 860 calories

Answer: A

Explanation:

Total distance jogged in entire week

$$= 3.5 + 0.5 + 2 + 1.5 + 1.5 + 1 + 2 = 12 \text{ km}$$

Calories burned after jogging 5 km = 400 calories

$$\Rightarrow \text{Calories burned after jogging 12 km} = \frac{400}{5} \times 12$$

$$= 80 \times 12 = 960 \text{ calories}$$

=> Ans - (A)

Question 100

Read the data and answer the questions below

Items	Yearly expence in lakhs
Raw Materilas	5
Labour	4
Rent	2
Interest	6
Taxes	4

Rent and taxes are what percent of the total expenses?

- A 14.07 percent
- B 21.32 percent
- C 28.57 percent
- D 35.82 percent

Answer: C

Explanation:

Yearly experience in rent and taxes (in lakhs) = 2 + 4 = 6

Total expenses (in lakhs) = 5 + 4 + 2 + 6 + 4 = 21

=> Required % = $\frac{6}{21} \times 100$

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

=> Ans - (C)

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