



SSC CHSL 16 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.

Sachin Tendulkar : Cricket :: Roger Federer : ?

- A Lawn Tennis
- B Football
- C Basket Ball
- D Volley Ball

Answer: A

Explanation:

Expression = Sachin Tendulkar : Cricket :: Roger Federer : ?

Sachin Tendulkar was a cricketer, similarly Roger Federer plays *lawn tennis*.

=> Ans - (A)

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Question 2

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

TC : EV :: NS : ?

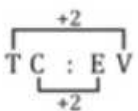
- A QT
- B LK
- C PU
- D UP

Answer: D

Explanation:

Expression = TC : EV :: NS : ?

The pattern followed is :



Similarly, NS : **UP**

=> Ans - (D)

Question 3

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

DR : KK :: LN : ?

- A QH

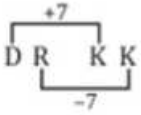
- B SH
- C SG
- D GR

Answer: C

Explanation:

Expression = DR : KK :: LN : ?

The pattern followed is :



Similarly, LN : **SG**

=> Ans - (C)

Question 4

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

5 : 100 :: 6 : ?

- A 180
- B 150
- C 160
- D 170

Answer: A

Explanation:

Expression = 5 : 100 :: 6 : ?

The pattern followed is = $x : x^2(x - 1)$

Eg :- $5 : 5^2(5 - 1) = 5 : 25 \times 4 = 5 : 100$

Similarly, $6^2 \times (6 - 1) = 36 \times 5 = 180$

=> Ans - (A)

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Question 5

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

- A Dhanraj Pillay
- B Pankaj Advani
- C Dhyan Chand
- D Sardara Singh

Answer: B

Explanation:

Except Pankaj Advani other three are related to Hockey. Pankaj Advani played billiards and snooker, hence he is the odd one out.

=> Ans - (B)

Question 6

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

- A LJH
- B XUS
- C VTR
- D FDB

Answer: B

Explanation:

(A) : L (-2 letters) = J (-2 letters) = H

(B) : X (-3 letters) = U (-2 letters) = S

(C) : V (-2 letters) = T (-2 letters) = R

(D) : F (-2 letters) = D (-2 letters) = B

=> Ans - (B)

Question 7

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

- A 153
- B 261
- C 104
- D 108

Answer: C

Explanation:

Sum of digits of all numbers is 9, but $1 + 0 + 4 = 5$, hence 104 is the odd one out.

=> Ans - (C)

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Question 8

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

- A 243
- B 687
- C 978
- D 456

Answer: D

Explanation:

The third digit is the average of the first two digits.

$$\frac{(2+4)}{2} = \frac{6}{2} = 3$$

$$\frac{(6+8)}{2} = \frac{14}{2} = 7$$

$$\frac{(9+7)}{2} = \frac{16}{2} = 8$$

$$\frac{(4+5)}{2} = \frac{9}{2} = 4.5 \neq 6$$

=> 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.

Matriculation, Intermediate, Graduate, ?

- A Post-graduate
- B Doctorate
- C Diploma
- D Philosophy

Answer: A

Explanation:

List of educational degrees are given.

= Matriculation -> Intermediate -> Graduate -> Post-graduate

=> Ans - (A)

Question 10

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

AK, DQ, GV, JZ, ?

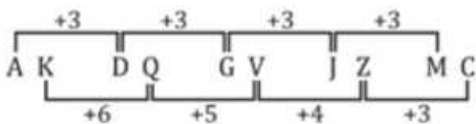
- A NY
- B MC
- C MY
- D NZ

Answer: B

Explanation:

Expression : AK, DQ, GV, JZ, ?

The pattern followed is :



Thus, missing term = MC

=> 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.

SQ, R, XV, W, IK, ?

- A J
- B L
- C M
- D O

Answer: A

Explanation:

Expression : SQ, R, XV, W, IK, ?

The pattern followed is that the second term is in the middle of the letters in the first term

Eg :- R is between Q and S, W is between V and X

Similarly, J comes between I and K.

=> Ans - (A)

Question 12

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

19, 29, 40, 44, ?

- A 50
- B 52
- C 54
- D 48

Answer: B

Explanation:

The sum of digits of the previous number is added to the next number.

$$1 + 9 = 10 \rightarrow 19 + 10 = 29$$

$$2 + 9 = 11 \rightarrow 29 + 11 = 40$$

$$4 + 0 = 4 \rightarrow 40 + 4 = 44$$

$$4 + 4 = 8 \rightarrow 44 + 8 = 52$$

=> Ans - (B)

Question 13

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) Men are sinners.
- (II) Saints are men.

Conclusions:

- (I) Saints are sinners.
- (II) Sinners are saints.

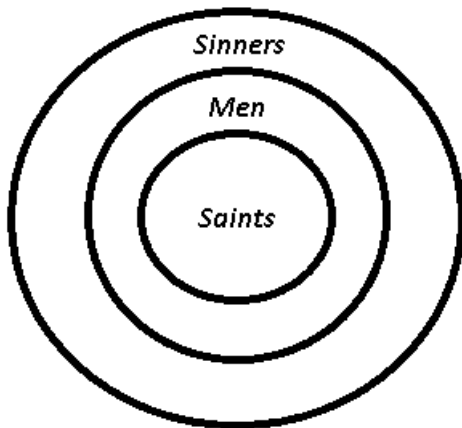
- A Conclusion I follows
- B Conclusion II follows
- C Neither I nor II follows

D Both I and II follows

Answer: A

Explanation:

The venn diagram for above statements is :



Conclusions:

(I) Saints are sinners = true

(II) Sinners are saints = false

Thus, only conclusion I follows

=> Ans - (A)

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Question 14

If 27th February 2011 was Sunday, then 1st March 2012 will be what day of the week?

A Thursday

B Friday

C Sunday

D Monday

Answer: A

Explanation:

According to the question, 27th February 2011 is Sunday

Number of days left in February = $28 - 27 = 1$

Similarly, odd days from 27th February 2011 till 1st March 2012 =

$= (1 + 31 + 30 + 31 + 30 + 31 + 31 + 30 + 31 + 30 + 31 + 31 + 29 + 1) \% 7$ (February has 29 days in 2012)

$= 1 + 3 + 2 + 3 + 2 + 3 + 3 + 2 + 3 + 2 + 3 + 3 + 1 + 1 = 32$

Now, dividing 32 by 7, remainder = 4

Thus, day on 1st March 2012 = Sunday (+4) = Thursday

=> Ans - (A)

Question 15

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

- i. Accuse
- ii. Accustom
- iii. Accumulation
- iv. Accompany

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

Answer: B

Explanation:

As per the order of dictionary :

= Accompany -> Accumulation -> Accuse -> Accustom

≡ iv, iii, i, ii

=> Ans - (B)

Question 16

In a certain code language, "CERTAIN" is written as "DFSTBJO". How is "CRICKET" written in that code language?

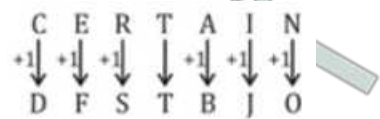
- A DSJBLFU
- B DSJDLFU
- C DSJCLFU
- D DSJCLFV

Answer: C

Explanation:

"CERTAIN" is written as "DFSTBJO"

The pattern followed is :



Similarly, for CRICKET : DSJCLFU

=> Ans - (C)

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Question 17

Find the missing number as per given series in the table?

7	6	5
2	3	3
98	?	75

- A 108
- B 216
- C 144
- D 288

Answer: A

Explanation:

In each column, the number at the end is obtained by multiplying the square of first number to the second number.

Eg :- $\Rightarrow (7^2) \times 2 = 98$

$(5^2) \times 3 = 75$

Similarly, $(6^2) \times 3 = 108$

\Rightarrow Ans - (A)

Question 18

If "\$" means "addition", "@" means "division", "#" means "multiplication" and "%" means "subtraction", then $84 @ 12 \# 3 \$ 24 \% 35 = ?$

- A 9
- B 8
- C 10
- D 6

Answer: C

Explanation:

Expression : $84 @ 12 \# 3 \$ 24 \% 35 = ?$

$\equiv 84 \div 12 \times 3 + 24 - 35$

$= (7 \times 3) - 11$

$= 21 - 11 = 10$

\Rightarrow Ans - (C)

Question 19

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

M_P_M_R_PM_PM_RR_P

- A RMPPRMP
- B RRMPPMP
- C RMRPRMP
- D MRMPRMP

Answer: C

Explanation:

The pattern followed is that the terms 'MRP' and 'MMRRPP' are alternatively repeated.

$= \text{MRP MMRRPP MRP MMRRPP}$

\Rightarrow Ans - (C)

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Question 20

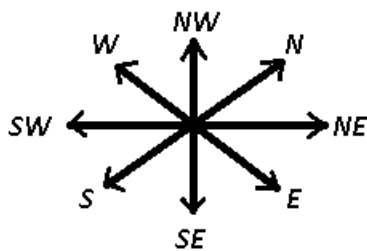
A compass is incorrectly aligned. For the direction of west, it is showing south-west. Which direction will it show for north?

- A East
- B North-west
- C North-east
- D South-east

Answer: B

Explanation:

For the direction of west, it is showing south-west,



Thus, it will show north-west for north.

=> 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, 'F' can be represented by 32, 42 etc. and 'M' can be represented by 88, 68 etc. Similarly, you have to identify the set for the word 'MOVE'.

Matrix - I

	0	1	2	3	4
0	I	N	U	H	E
1	U	I	E	L	L
2	V	G	I	N	E
3	V	W	F	I	U
4	V	V	F	N	E

Matrix - II

	5	6	7	8	9
5	I	S	D	R	O
6	O	I	I	M	S
7	O	S	G	I	O
8	D	M	T	M	I
9	S	D	D	M	S

- A 98, 59, 42, 44
- B 86, 79, 40, 43
- C 88, 65, 20, 24
- D 68, 75, 30, 13

Answer: C

Explanation:

(A) : 98, 59, 42, 44 = MOFE

(B) : 86, 79, 40, 43 = MOVN

(C) : 88, 65, 20, 24 = **MOVE**

(D) : 68, 75, 30, 13 = MOVL

=> Ans - (C)

Question 22

Neha's is the only girl of her father and her father is the father-in-law of Pranav's brother. Pranav is Rajeev's nephew. How is Rajeev related to Neha?

- A Father-in-law
- B Daughter-in-law
- C Uncle
- D Brother

Answer: A

Explanation:

Neha's is the only girl of her father and her father is the father-in-law of Pranav's brother.

=> Neha is the wife of Pranav's brother .

Pranav is Rajeev's nephew, => Rajeev is father of Neha's husband.

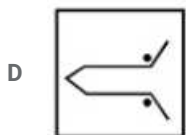
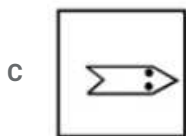
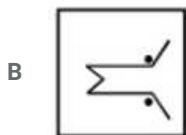
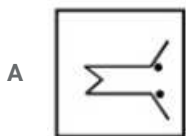
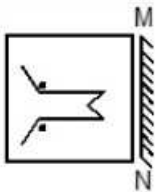
Thus, Rajeev is Neha's father-in-law

=> Ans - (A)

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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 'M' shape in the middle will be reversed and will now face towards right, thus the last two options will be eliminated.

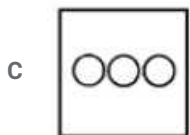
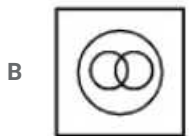
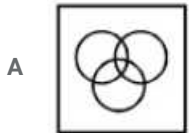
Also, in the question figure, the two dots are outside the figure, hence second option is the right image.

=> Ans - (B)

Question 24

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

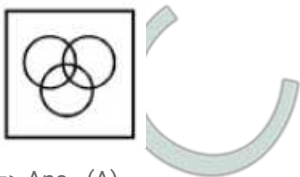
Cricketer, Footballer, Indian



Answer: A

Explanation:

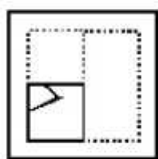
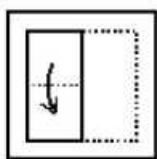
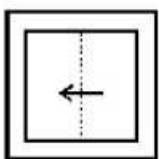
A footballer can be either a cricketer or an Indian, similarly an Indian can be either a cricketer or a footballer and vice versa, hence the venn diagram that best describes above relation is :

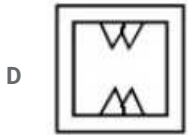
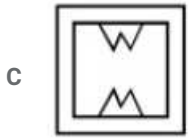
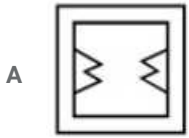


=> Ans - (A)

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: A

Explanation:

When the paper is unfolded first to the top, M shape will appear which is open towards left of the part.

When the paper is unfolded again to the right, M shape will appear on the right which is open towards right of the paper.

∴ When the paper is opened 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

Processed data is known as

- A Data
- B Information
- C Knowledge
- D Analysis

Answer: B

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Question 27

Who invented logarithms?

- A Eden Snowden
- B Larry Page
- C Thomas Edison
- D John Napier

Answer: D

Question 28

The largest gland of the human body is

- A Pancreas
- B Thyroid
- C Large Intestine
- D Liver

Answer: D

Question 29

Photosynthesis in plants takes place in

- A Stem
- B Leaves
- C Roots
- D Flower

Answer: B

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Question 30

Insects that transmit diseases are known as

- A Pathogens
- B Vectors
- C Drones
- D Scalars

Answer: B

Question 31

_____ gets converted to phosgene, when exposed to sunlight.

- A Chloroform
- B Acetone

C Benzene

D Propylene

Answer: A

Question 32

Who discovered benzene?

A Hal Anger

B Michael Faraday

C Bruce Ames

D Nicolas Appert

Answer: B

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Question 33

Who was the architect of Gateway of India?

A Guru Ramdas

B Maharaja Pratap Singh

C Rabindra Nath Tagore

D George Wittet

Answer: D

Question 34

Bhangra is a folk dance of

A Arunachal Pradesh

B Punjab

C Assam

D Nagaland

Answer: B

Question 35

If the break-even quantity for a factory whose variable cost of manufacturing a cell is Rs. 15 and selling price is Rs. 24 is 2,400 units, find the fixed cost of the factory?

A Rs. 21600

B Rs. 36000

C Rs. 57600

D Rs. 14400

Answer: A

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Question 36

At the equilibrium price

- A quantity demanded is equal to quantity supplied
- B quantity demanded is greater than quantity supplied
- C elasticity of demand equals elasticity of supply
- D price elasticity of demand is unity

Answer: A

Question 37

Which of the following gases emitted from automobile exhaust is poisonous?

- A Carbon monoxide
- B Carbon dioxide
- C Hydrocarbons
- D Sulphur dioxide

Answer: A

Question 38

Molybdenite is an ore/mineral of

- A Molybdenum
- B Nickel
- C Silver
- D Tin

Answer: A

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Question 39

Which state has decided to recruit transgender people as jail wardens?

- A Uttarakhand
- B Tamil Nadu
- C Kerala
- D Odisha

Answer: D

Question 40

What are Equinox days?

- A When day is smaller than night
- B When day is the longest in the year
- C When day is greater than night
- D When day and night are equal

Answer: D

Question 41

Which is the largest Union Territory of India?

- A Goa
- B Andaman and Nicobar Islands
- C Puducherry
- D Chandigarh

Answer: B

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Question 42

Mahatma Gandhi was born in which year?

- A 1869
- B 1879
- C 1889
- D 1899

Answer: A

Question 43

Jahangir was born in the year

- A 1569
- B 1669
- C 1769
- D 1869

Answer: A

Question 44

Who won the Bharat Ratna on his 100th birthday?

- A Acharya Vinobha bhave
- B JRD Tata
- C D.K. Karve
- D Zakir Hussain

Answer: C

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Question 45

Physical quantities, which have _____ only and no _____ are called scalar quantities.

- A direction, magnitude
- B magnitude, direction
- C speed, velocity
- D velocity, speed

Answer: B

Question 46

Sudden fall in the barometric reading is an indication of _____.

- A Storm
- B Scorching heat
- C Rain
- D Clear weather

Answer: A

Question 47

The Rajya Sabha members are elected for a term of _____ years.

- A 15
- B 12
- C 9
- D 6

Answer: D

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Question 48

The National Anthem was adopted by the Constituent Assembly in

- A 24th May 1949
- B 24th November 1949
- C 24th January 1950
- D 24th June 1950

Answer: C

Question 49

Who won the National Snooker Championship 2016?

- A Manan Chandra
- B Mahesh Yadav
- C Aditya Mehta
- D Pankaj Advani

Answer: C

Question 50

Who is the author of 'Train to Pakistan'?

- A Jhumpa Lahiri
- B Amish Tripathi
- C Ravinder Singh
- D Khushwant Singh

Answer: D

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English

Instructions

For the following questions answer them individually

Question 51

Select the word with the correct spelling.

- A splintted
- B goudiest
- C gibbered
- D gleening

Answer: C

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Question 52

Select the word with the correct spelling.

- A toxicety
- B mamalia
- C collumned
- D notation

Answer: D

Question 53

Select the antonym of abominable

- A attractive
- B gross
- C grim
- D lousy

Answer: A

Question 54

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.

I said to her, "I will do it now or never."

- A I informed her that I would do it that moment or never.
- B I told her I would do it then or never.
- C I told her that I would not do it then or ever.
- D I told her that I would do it then or never.

Answer: D

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Question 55

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

Smell a rat

- A To sense that events will not be in one's favour
- B To begin to suspect trickery or deception
- C To be forewarned of danger to oneself
- D To prevent calamity by chance

Answer: B

Question 56

Rearrange the parts of the sentence in correct order.

An engineer building a bridge
P-find easy to comprehend
Q-picks the best plan
R-and not the one that motorists

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

Answer: D

Question 57

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.

You may try but she is too _____ to fall for your trick.

- A brilliant
- B intelligent
- C genius
- D witty

Answer: B

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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.

The tendency to recur at intervals.

- A rotation
- B wheel
- C sequence
- D periodicity

Answer: D

Question 59

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.

As the improvement in his situation was _____, the doctor did not discharge him.

- A marginal
- B tiny

C microscopic

D negated

Answer: A

Question 60

Select the synonym of aground

A stranded

B higher

C afloat

D buoyant

Answer: A

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Question 61

Select the antonym of flog

A whop

B compliment

C flay

D flax

Answer: B

Question 62

In the following question, out of the four alternatives, select the alternative which is the best substitute of the phrase

A dramatic entertainment, in which performers express through gestures

A mimicry

B ham

C pantomime

D depiction

Answer: C

Question 63

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.

My father is going to build a six bedroom bungalow.

A A six bedroom bungalow was going to be built by my father.

B My father will have built a bungalow which will have six bedrooms.

- C A bungalow of six bedrooms will have been built by my father.
- D A six bedroom bungalow is going to be built by my father.

Answer: D

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Question 64

Rearrange the parts of the sentence in correct order.

To begin with,

P-is not that they are 'unsmart'

Q-the problem with Indian cities

R-but that they are dysfunctional

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

Answer: C

Question 65

Improve the bracketed part of the sentence.

My patients (were waited) for me since morning.

- A wait
- B had been waited
- C have been waiting
- D no improvement

Answer: C

Question 66

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

Sixth sense

- A An intuitive power of perception
- B A strong power of sense
- C An ability to perceive when something will go wrong
- D The false feeling that you know the truth

Answer: A

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Question 67

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'.

There is no question(A)/of me failing(B)/ in the examination.(C)/No error(D)

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

Answer: D

Question 68

Select the synonym of decree

- A certificate
- B Law
- C title
- D award

Answer: B

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'.

One should respect(A)/religious beliefs of others,(B)/as much as his owns.(C)/No error(D)

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

Answer: C

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Question 70

Improve the bracketed part of the sentence.

He is an atheist (yet) he goes to the church every Sunday.

- A because
- B and
- C however
- D no improvement

Answer: D

Instructions

In the following passage some of the words have been left out. Read the passage carefully and select the correct answer for the given blank out of the four alternatives.

____(1)____ nearly eight decades, the women's movement ____ (2) ____ and debated the desirability and feasibility of a Uniform Civil Code, and has ended up ____ (3) ____ a simple question – what is the value of uniformity? Is it for the "integrity of the nation" that uniformity in laws is required, as some judicial pronouncements ____ (4) ____? If so, who exactly is the beneficiary? Which sections of people benefit from "integrity of the nation", that abstract entity which is not exactly ____ (5) ____ the top of your mind as your husband throws you out on the street?

Question 71

(1)

- A About
- B Of
- C With
- D For

Answer: D

Question 72

(2)

- A discussed
- B has discussed
- C had discussed
- D had been discussing

Answer: B

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Question 73

(3)

- A holding
- B positioning
- C posturing
- D posing

Answer: D

Question 74

(4)

- A have suggested

B had been suggesting

C suggests

D suggested

Answer: A

Question 75

(5)

A in

B for

C at

D of

Answer: C

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Mathematics

Instructions

For the following questions answer them individually

Question 76

All sides are congruent in a _____.

A Rectangle

B Parallelogram

C Rhombus

D Kite

Answer: C

Explanation:

Congruent sides means that all sides are equal in length, among the given options all sides are equal in a rhombus.

=> Ans - (C)

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Question 77

P and Q can complete a task in 50 and 20 days respectively. In how many days can they complete 70% of the task if they work together?

A 20 days

B 30 days

C 40 days

D 10 days

Answer: D

Explanation:

Let total work to be done = 100 units

P can complete the work alone in 50 days

$$\Rightarrow \text{P's efficiency} = \frac{100}{50} = 2 \text{ units/day}$$

Q can complete the work alone in 20 days

$$\Rightarrow \text{Q's efficiency} = \frac{100}{20} = 5 \text{ units/day}$$

(P + Q)'s 1 day's work = 2 + 5 = 7 units/day

$$\Rightarrow 70\% \text{ of the work} = \frac{70}{100} \times 100 = 70 \text{ units}$$

$$\therefore \text{Time taken by them together to complete 70\% of the work} = \frac{70}{7} = 10 \text{ days}$$

\Rightarrow Ans - (D)

Question 78

A dishonest milkman buys milk at Rs 24 per litre and adds $\frac{1}{3}$ of water to it and sells the mixture at Rs 32 per litre. What is his gain?

A 33.33 percent

B 50 Percent

C 77.78 percent

D 66.67 percent

Answer: C

Explanation:

The milkman adds $\left(\frac{1}{3}\right)^{rd}$ of water, thus total mixture = $1 + \frac{1}{3} = \frac{4}{3}$

$$\text{Cost price per litre of the mixture} = \frac{24}{\frac{4}{3}} = 24 \times \frac{3}{4} = \text{Rs.}18$$

Selling price per litre = Rs. 32

$$\therefore \text{Profit \%} = \frac{32-18}{18} \times 100$$

$$= \frac{700}{9} \approx 77.78\%$$

\Rightarrow Ans - (C)

Question 79

A bank offers 15% compound interest per half year. A customer deposits Rs 7200 each on 1st January and 1st July of a year. At the end of the year, the amount he would have gained by means of interest is

A Rs 6803

B Rs 3402

C Rs 1701

D Rs 850

Answer: B

Explanation:

The interest earned on 7200 from Jan to July will be $7200 \times 15 \times \frac{1}{100}$ (Since rate of interest is 15 % per 6 months)

$$= 72 \times 15 = 1080$$

Hence, 7200 will amount to 8280. He adds another 7200 to this. So the net amount becomes $7200 + 8280 = 15480$.

Now interest earned on this amount in a period of 6 months will be $15480 \times 15 \times \frac{1}{100} = 2322$

So the final amount will be $15480 + 2322 = 17802$

Total money he deposited = $7200 + 7200 = 14400$

Hence, amount earned via interest = $17802 - 14400 = \text{Rs. } 3402$

=> Ans - (B)

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Question 80

What is the measure of the central angle of the sector whose area is 462 sq cm and radius of the circle is 21 cm?

- A 90°
- B 60°
- C 30°
- D 120°

Answer: D

Explanation:

Let central angle = θ and radius = 21 cm

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

$$= \frac{\theta}{360} \times \frac{22}{7} \times (21)^2 = 462$$

$$= \frac{\theta}{360} \times 22 \times 63 = 462$$

$$= \frac{\theta}{20} \times 77 = 462$$

$$\Rightarrow \theta = \frac{462}{77} \times 20$$

$$\Rightarrow \theta = 6 \times 20 = 120^\circ$$

=> Ans - (D)

Question 81

$\sqrt{\frac{(1 - \sin A)}{(1 + \sin A)}}$ is equal to?

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

Answer: A

Explanation:

$$\text{Expression: } \sqrt{\frac{(1 - \sin A)}{(1 + \sin A)}}$$

Multiplying both numerator and denominator by $(\sqrt{1 - \sin A})$

$$\frac{(1 - \sin A)}{(1 - \sin A)}$$

$$\begin{aligned}
 &= \sqrt{\frac{(1-\sin A)}{(1+\sin A)}} \times \sqrt{\frac{(1-\sin A)}{(1-\sin A)}} \\
 &= \sqrt{\frac{(1-\sin A)^2}{1-\sin^2 A}} = \sqrt{\frac{(1-\sin A)^2}{\cos^2 A}} \\
 &= \frac{1-\sin A}{\cos A} = \left(\frac{1}{\cos A}\right) - \left(\frac{\sin A}{\cos A}\right) \\
 &= \sec A - \tan A
 \end{aligned}$$

=> Ans - (A)

Question 82

What is the value of $\frac{(4a^2+8b+14c+2)}{2}$?

A $2a^2 + 4b + 7c + 1$

B $a^2 + 4b + 7c + 1$

C $2a^2 + 4b + 7c + 2$

D $a^2 + 4b + 7c + 2$

Answer: A

Explanation:

Expression : $\frac{(4a^2+8b+14c+2)}{2}$

$$= \frac{2(2a^2+4b+7c+1)}{2}$$

$$= 2a^2 + 4b + 7c + 1$$

=> Ans - (A)

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Question 83

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

A 54

B -4

C -30

D 4

Answer: B

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

Expression : $(x + 9)(6 - 4x)$

$$= 6x - 4x^2 + 54 - 36x$$

$$= -4x^2 - 30x + 54$$

∴ Coefficient of $x^2 = -4$

=> Ans - (B)

Question 84

If the number 247_679 is completely divisible by 9, then the smallest whole number in the place of the blank digit will be

- A 2
- B 7
- C 1
- D 5

Answer: C

Explanation:

For a number to be divisible by 9, sum of the digits of the number must be divisible by 9.

Let the number be = $247x679$

$$\Rightarrow \text{Sum of digits} = 2 + 4 + 7 + x + 6 + 7 + 9 = 35 + x$$

The next multiple of 9 after 35 is 36

$$\Rightarrow 35 + x = 36$$

$$\Rightarrow x = 36 - 35 = 1$$

\Rightarrow Ans - (C)

Question 85

What are the 2 consecutive even natural numbers, sum of whose squares is 52?

- A 2, 7
- B 3, 5
- C 4, 6
- D 5, 6

Answer: C

Explanation:

Let the consecutive even natural numbers be $x, (x + 2)$

$$\text{Sum of their squares} = (x)^2 + (x + 2)^2 = 52$$

$$\Rightarrow x^2 + (x^2 + 4x + 4) = 52$$

$$\Rightarrow 2x^2 + 4x + 4 - 52 = 0$$

$$\Rightarrow x^2 + 2x - 24 = 0$$

$$\Rightarrow x^2 + 6x - 4x - 24 = 0$$

$$\Rightarrow x(x + 6) - 4(x + 6) = 0$$

$$\Rightarrow (x - 4)(x + 6) = 0$$

$$\Rightarrow x = 4, -6$$

Since, the numbers are natural, thus $x \neq -6$

\therefore Numbers are = 4, 6

\Rightarrow Ans - (C)

Question 86

What is the value of $\cot \frac{5\pi}{3}$?

- A $\frac{1}{\sqrt{3}}$
- B $-\frac{1}{\sqrt{3}}$
- C $\sqrt{3}$
- D $-\sqrt{3}$

Answer: B

Explanation:

Expression : $\cot \frac{5\pi}{3}$

$$= \cot\left(2\pi - \frac{\pi}{3}\right)$$

$$= -\cot\left(\frac{\pi}{3}\right)$$

$$= -\frac{1}{\sqrt{3}}$$

=> Ans - (B)

Question 87

If $\sin 3A = x$, then value of x is

- A $3\sin A + 4\sin^3 A$
- B $4\sin^3 A - 3\sin A$
- C $4\sin^3 A + \sin A$
- D $3\sin A - 4\sin^3 A$

Answer: D

Explanation:

Expression : $\sin 3A = X$

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

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

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

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

$$= 2\sin A(1 - \sin^2 A) + \sin A - 2\sin^3 A$$

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

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

=> Ans - (D)

Question 88

If $7x + 6y = 5xy$ and $10x - 4y = 4xy$, then value of x and y is

- A 3, 2
- B 2, 3

C 4, 2

D 5, 6

Answer: C

Explanation:

Equation 1 : $7x + 6y = 5xy$

Equation 2 : $10x - 4y = 4xy$

Dividing both equations by (xy)

$$\Rightarrow \frac{7}{y} + \frac{6}{x} = 5$$

$$\text{and } \frac{10}{y} - \frac{4}{x} = 4$$

Let $\frac{1}{y} = u$ and $\frac{1}{x} = v$

$$\Rightarrow 7u + 6v = 5 \text{-----(iii)}$$

$$\text{and } 10u - 4v = 4 \text{-----(iv)}$$

Multiplying equation (iv) by 3 and equation (iii) by 2 and adding them, we get :

$$\Rightarrow (14u + 30u) = (10 + 12)$$

$$\Rightarrow u = \frac{22}{44} = \frac{1}{2}$$

Substituting it in equation (iv), $\Rightarrow 4v = 5 - 4 = 1$

$$\Rightarrow v = \frac{1}{4}$$

$$\therefore (x, y) = (4, 2)$$

\Rightarrow Ans - (C)

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Question 89

If the selling price is Rs 728 after getting a discount of 9%, what was the marked price?

A Rs 793.52

B Rs 800

C Rs 662.48

D Rs 667

Answer: B

Explanation:

Let Marked Price = Rs. x

Selling price = Rs. 728

$$\text{Discount \%} = \frac{(x-728)}{x} \times 100 = 9$$

$$\Rightarrow \frac{x-728}{x} = \frac{9}{100}$$

$$\Rightarrow 100x - 72800 = 9x$$

$$\Rightarrow 100x - 9x = 91x = 72800$$

$$\Rightarrow x = \frac{72800}{91} = Rs.800$$

\Rightarrow Ans - (B)

Question 90

The cross-section of a canal is in the shape of an isosceles trapezium which is 3 m wide at the bottom and 5 m wide at the top. If the depth of the canal is 2 m and it is 110 m long, what is the maximum capacity of this canal? (Take $\pi = 22/7$)

- A 1760 cubic metres
- B 1650 cubic metres
- C 1056 cubic metres.
- D 880 cubic metres

Answer: D

Explanation:

The canal is 3 m wide at the bottom and 5 m at the top, thus the canal is in the shape of a trapezium whose volume will be equal to the product of area of trapezium and the width.

Length of canal = 110 m

Volume of canal = $\left(\frac{1}{2} \times (\text{sum of parallel sides}) \times \text{height}\right) \times \text{length}$

$$\Rightarrow \text{Volume} = \left(\frac{1}{2} \times (5 + 3) \times 2\right) \times 110$$

$$= 8 \times 110 = 880 \text{ m}^3$$

\Rightarrow Ans - (D)

Question 91

Two numbers are 30% and 37% 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 10 percent
- B 7 percent
- C 11.11 percent
- D 18.92 percent

Answer: C

Explanation:

Let third number = $100x$

First number is 30% less than $100x$ and second number is 37% less than $100x$

\Rightarrow First number = $70x$ and Second number = $63x$

To make second number equal to first number, it should be enhanced by = $70x - 63x = 7x$

$$\Rightarrow \text{Required \%} = \frac{7x}{63x} \times 100 = \frac{1}{9} \times 100 = 11.11\%$$

\Rightarrow Ans - (C)

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Question 92

Two cars travel from city A to city B at a speed of 24 and 32 km/hr respectively. If one car takes 2.5 hours lesser time than the other car for the journey, then the distance between City A and City B is

- A 288 km

- B 360 km
- C 240 km.
- D 192 km

Answer: C

Explanation:

Let the distance between City A and City B = d km

Speed of first car = 24 km/hr and speed of second car = 32 km/hr

Let time taken by first car = t hrs and time taken by second car = $(t - 2.5)$ hrs

Using, speed = distance/time for first car :

$$\Rightarrow \frac{d}{t} = 24$$

$$\Rightarrow d = 24t \text{-----(i)}$$

For second car, $\Rightarrow \frac{d}{t-2.5} = 32$

Substituting value of d from equation (i), we get :

$$\Rightarrow 24t = 32t - 80$$

$$\Rightarrow 32t - 24t = 8t = 80$$

$$\Rightarrow t = \frac{80}{8} = 10 \text{ hrs}$$

From equation (i), $\Rightarrow d = 24 \times 10 = 240$ km

\Rightarrow Ans - (C)

Question 93

The ratio of present ages of Rangana and Sayed is 7:5. After 11 years the ratio of their ages will be 4:3. What is Rangana's present age?

- A 55
- B 77
- C 70
- D 96

Answer: B

Explanation:

Let Rangana's present age = $7x$ years and Sayed's present age = $5x$ years

According to ques, $\Rightarrow \frac{7x+11}{5x+11} = \frac{4}{3}$

$$\Rightarrow 21x + 33 = 20x + 44$$

$$\Rightarrow 21x - 20x = 44 - 33$$

$$\Rightarrow x = 11$$

\therefore Rangana's age = $7 \times 11 = 77$ years

\Rightarrow Ans - (B)

Question 94

A factory buys 10 machines. 2 Machine-A, 3 Machine-B and rest Machine-C. Prices of the machines are Rs 95000, Rs 60000 and Rs 50000 respectively. What is the average cost of these machines?

- A 62000
- B 68333
- C 74666
- D 60500

Answer: A

Explanation:

Cost of machines A, B and C respectively are : Rs. 95000 , 60000 and 50000

Number of machines A, B and C respectively are : 2 , 3 , 5

$$\Rightarrow \text{Total cost} = (2 \times 95000) + (3 \times 60000) + (5 \times 50000)$$

$$= 190,000 + 180,000 + 250,000 = \text{Rs. } 620,000$$

$$\therefore \text{Average cost} = \frac{6,20,000}{10} = \text{Rs. } 62,000$$

\Rightarrow Ans - (A)

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Question 95

A line cuts the x-axis at the point (-3,0) and the y-axis at the point (0,6). What is the equation of the line?

- A $x = 2y + 6$
- B $y = 2x - 6$
- C $x = 2y - 6$
- D $y = 2x + 6$

Answer: D

Explanation:

A line which intercept x-axis at (-3, 0) and y-axis at (0, 6)

$$\Rightarrow \text{Slope, } m = \frac{6-0}{0+3} = \frac{6}{3} = 2$$

Equation of line passing through points (x_1, y_1) and slope $m = (y - y_1) = m(x - x_1)$

$$\Rightarrow \text{Equation of line} = (y - 0) = 2(x + 3)$$

$$\Rightarrow y = 2x + 6$$

\Rightarrow Ans - (D)

Question 96

The point Q(a,b) is first reflected in y-axis to Q1 and Q1 is reflected in x-axis to (-6,2). The co-ordinates of point Q are

- A (-6,-2)
- B (2,-6)
- C (6,-2)
- D (-2,6)

Answer: C

Explanation:

$Q(a,b)$ after reflection in the y-axis = $(-a,b)$

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

According to ques,

$$\Rightarrow (-a, -b) = (-6, 2)$$

$$\Rightarrow -a = -6 \text{ and } -b = 2$$

\therefore Coordinates of Point Q = $(6,-2)$

\Rightarrow Ans - (C)

Question 97

Refer the below data table and answer the following Question.

Division / Standard	Boys	Girls
Division A / Standard 5	25	40
Division B / Standard 5	30	40
Division C / Standard 5	30	20
Division A / Standard 6	20	30
Division B / Standard 6	40	20
Division C / Standard 6	30	20

What is the ratio of boys to girls?

A 35 : 34

B 34 : 35

C 37 : 36

D 36 : 37

Answer: A

Explanation:

Total number of boys = $25 + 30 + 30 + 20 + 40 + 30 = 175$

Total number of girls = $40 + 40 + 20 + 30 + 20 + 20 = 170$

$$\Rightarrow \text{Required ratio} = \frac{175}{170}$$

$$= 35 : 34$$

\Rightarrow Ans - (A)

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Question 98

Refer the below data table and answer the following Question.

Marks	Number of Students
40 and above	30
30 and above	43
30 and above	60
10 and above	70
0 and above	85

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

A 43

- B 60
- C 30
- D 103

Answer: C

Explanation:

Number of students who scored :

40 and above = 30

30 and above = 43 - 30 = 13

20 and above = 60 - 43 = 17

10 and above = 70 - 60 = 10

0 and above = 85 - 70 = 15

=> Students who have scored marks 20 or more but less than 40 = 17 + 13 = 30

=> Ans - (C)

Question 99

Refer the below data table and answer the following Question.

Year	GDP growth rate for the year (in %)
2011	-6
2012	-6
2013	6
2014	8
2015	4

If the GDP of the country was \$3 trillion at the end of 2011, what was it at the beginning of 2013?

- A \$3.18 trillion
- B \$4.60 trillion
- C \$3 trillion
- D \$2.82 trillion

Answer: D

Explanation:

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

=> GDP growth rate in 2012 = -6%

GDP at the end of 2011 = GDP at the beginning of 2012 = \$3 trillion

$$\therefore \text{GDP at the beginning of 2013} = \frac{100-6}{100} \times 3 \text{ trillion}$$

$$= \frac{282}{100} = \$2.82 \text{ trillion}$$

=> Ans - (D)

Question 100

Refer the below data table and answer the following Question.

Subjects	Marks Scored
English	45
Hindi	65
Math	30
Science	45
Arts	35

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

- A 39
- B 34
- C 29
- D 44

Answer: A

Explanation:

Total marks scored by the student = $45 + 65 + 30 + 45 + 35 = 220$

=> Average marks = $\frac{220}{5} = 44$

But due to poor attendance, 5 marks are deducted

∴ Net average = $44 - 5 = 39$

=> Ans - (A)

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