



SSC CHSL 25 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.

Tropic of Cancer : Latitude :: Prime Meridian : ?

- A Equinox
- B Contour line
- C Longitude
- D Climatic zone

Answer: C

Explanation:

The Tropic of Cancer is the circle marking the latitude, similarly prime meridian is the line of 0° longitude.

=> Ans - (C)

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Question 2

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

ECEIN :NIECE :: VANISH:?

- A HSINVA
- B SHINAV
- C HSINAV
- D HSNIAV

Answer: C

Explanation:

Expression = ECEIN :NIECE :: VANISH:?

The pattern followed is that the word is written in *reverse* order, i.e. first letter at last position, second at second last and so on.

Similarly, reverse of VANISH : **HSINAV**

=> Ans - (C)

Question 3

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

HNP :JPR :: QRS : ?

- A KNO
- B STU
- C NQR
- D TZA

Answer: B

Explanation:

Expression = HNP : JPR :: QRS : ?

The pattern followed is :

H	N	P
(+2)	(+2)	(+2)
J	P	R

Similarly, QRS : STU

Q	R	S
(+2)	(+2)	(+2)
S	T	U

=> Ans - (B)

Question 4

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

14 : 225 :: 17 : ?

- A 225
- B 324
- C 342
- D 569

Answer: B

Explanation:

Expression = 14 : 225 :: 17 : ?

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

Eg :- 14 : $(14 + 1)^2 = 14 : 225$

Similarly, $(17 + 1)^2 = (18)^2 = 324$

=> Ans - (B)

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Question 5

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

- A Bridge
- B Escalator
- C Ladder
- D Staircase

Answer: A

Explanation:

Escalator, ladder and staircase are used to move up or down between floors, while a bridge is a structure carrying a road, hence it is the odd one out.

=> Ans - (A)

Question 6

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

- A VTR
- B JLO
- C PNL
- D HFD

Answer: B

Explanation:

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

(B) : J (+2 letters) = L (+3 letters) = O

(C) : P (-2 letters) = N (-2 letters) = L

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

=> Ans - (B)

Question 7

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

- A 1256
- B 5397
- C 8765
- D 9842

Answer: D

Explanation:

Sum of middle two digit and extreme two digits are same, but $9 + 2 \neq 8 + 4$, hence 9842 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 1728
- B 5789
- C 6088
- D 4321

Answer: A

Explanation:

Among the given numbers, only $1728 = (12)^3$ is a perfect cube, hence it is the odd one out.

=> Ans - (A)

Question 9

A series is given with one term missing. Choose the correct alternative from the given ones that will complete the series.
Zoo, National Park, Wildlife Sanctuary, ?

- A Biosphere Reserve
- B Forest
- C Botanical Garden
- D Prairie

Answer: A

Explanation:

Zoo, National park, wild life sanctuary and biosphere reserve, all are used to conserve and protect wild life.

=> 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.
LMN, NPP, PSR, ?

- A QRS
- B RQT
- C PQR
- D RVT

Answer: D

Explanation:

Expression : LMN, NPP, PSR, ?

The pattern followed in each letter of the terms is :

1st letter : L (+2 letters) = N (+2 letters) = P (+2 letters) = R

2nd letter : M (+3 letters) = P (+3 letters) = S (+3 letters) = V

3rd letter : N (+2 letters) = P (+2 letters) = R (+2 letters) = T

Thus, missing term = **RVT**

=> Ans - (D)

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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.
FD, HF, KH, OJ, ?

- A GH
- B EF
- C RS
- D TL

Answer: D

Explanation:

Expression : FD, HF, KH, OJ, ?

The pattern followed in each letter of the terms is :

1st letter : F (+2 letters) = H (+3 letters) = K (+4 letters) = O (+5 letters) = T

2nd letter : D (+2 letters) = F (+2 letters) = H (+2 letters) = J (+2 letters) = L

Thus, missing term = **TL**

=> Ans - (D)

Question 12

A series is given with one term missing. Choose the correct alternative from the given ones that will complete the series.
1, 6, 21, 66, ?

A 250

B 201

C 310

D 308

Answer: B

Explanation:

The pattern followed is :

$$1 \times 3 + 3 = 6$$

$$6 \times 3 + 3 = 21$$

$$21 \times 3 + 3 = 66$$

$$66 \times 3 + 3 = \mathbf{201}$$

=> 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) Demonetization has evolved need for leaning electronic payment system (EPS).

(II) EPS will enable people to go cashless and use plastic money for most of their transactions.

Conclusions :

(I) EPS is quick, safe, and easy way of transaction of money from one account to another.

(II) Cashless transactions will further curb the black marketing of money in upcoming time.

A Only conclusion II follows

B Conclusion I and II both follow

C Neither I nor II follow

D Only conclusion I follows

Answer: C

Explanation:

From the given statements, there is no information regarding safety and quickness of payment of EPS system. EPS system may or may not be safe and quick. Hence conclusion I do not follow the given statements.

Also there is no information regarding conclusion II from the given statements. So conclusion II may or may not be true. Hence

conclusion II do not follow the given statements.

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

Hence, the correct answer is Option C

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Question 14

If day before yesterday was Sunday, then which day of the week will the sixth day from today be?

- A Wednesday
- B Tuesday
- C Monday
- D Thursday

Answer: C

Explanation:

If day before yesterday was Sunday, then today is = Tuesday

Now, 6th day from today = Tuesday (+6) = Monday

⇒ Ans - (C)

Question 15

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

- i. Regulate
- ii. Remedy
- iii. Reassemble
- iv. Research

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

Answer: A

Explanation:

As per the order of dictionary :

= Reassemble → Regulate → Remedy → Research

≡ iii,i,ii,iv

⇒ Ans - (A)

Question 16

In a certain code language, AUSTRALIA is written as @\$!#^@*?@. How is "STRAIT" written in that code language?

- A !#^@?#
- B !#@^?#
- C !#^?@#

D !#^@#?

Answer: A

Explanation:

The codes for each letter is given :

S -> !

T -> #

R -> ^

A -> @

I -> ?

T -> #

Thus, STRAIT : !#^@?#

=> Ans - (A)

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Question 17

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

P	M	Q
F	C	F
J	J	?

A R

B K

C L

D O

Answer: B

Explanation:

The pattern followed is that the alphabets are numbered alphabetically, A=1, B=2, C=3 and so on and then the first alphabet in each column is obtained by :

F=6 and J=10, => $6 + 10 = 16 \equiv P$

C=3 and J=10, => $3 + 10 = 13 \equiv M$

Similarly, Q=17 and F=6, => $17 - 6 = 11 \equiv K$

=> Ans - (B)

Question 18

If "+" means "subtraction", "x" means "division", "÷" means "addition" and "-" means "multiplication", then $154 \times 11 + 78 - 5 \div 45 = ?$

A -331

B -460

C -475

D -743

Answer: A

Explanation:

Expression : $154 \times 11 + 78 - 5 \div 45 = ?$

$$\equiv 154 \div 11 - 78 \times 5 + 45$$

$$= \left(\frac{154}{11}\right) + (-390) + 45$$

$$= 14 + 45 - 390 = -331$$

=> Ans - (A)

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?
CDEF_EDC_DE_FED_

A FCFC

B FCCD

C DCCC

D DEFC

Answer: A

Explanation:

The pattern followed is that in groups of 4, the term 'CDEF' is alternatively repeated in this and reverse order.

= CDEF FEDC CDEF FEDC

=> Ans - (A)

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Question 20

A boy leaves his home. He walks 45 m in south-west direction and then 145 m in north-east direction. Then, he moves 60 m in south direction. How far is he now from his initial position?

A 100 m

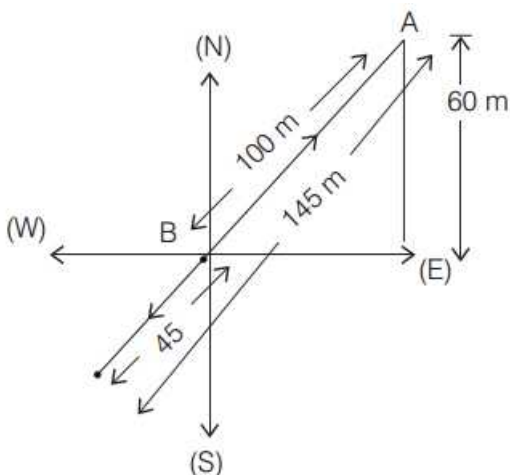
B 80 m

C 40 m

D 60 m

Answer: B

Explanation:



Let the boy leaves his home from origin and walks 45 m in south-west direction and then 145 m in north-east direction. Then, he moves 60 m in south direction.

$$\begin{aligned} \text{Thus, distance between his initial and final position} &= \sqrt{(100)^2 - (60)^2} \\ &= \sqrt{10000 - 3600} = \sqrt{6400} = 80 \text{ m} \end{aligned}$$

=> 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 21, 43 etc. and 'R' can be represented by 66, 57 etc. Similarly, you have to identify the set for the word 'GEAR'.

Matrix - I

	0	1	2	3	4
0	A	S	E	G	A
1	Q	D	H	L	S
2	W	N	T	K	D
3	H	D	Y	A	F
4	R	G	A	N	G

Matrix - II

	5	6	7	8	9
5	E	T	R	R	F
6	G	R	P	L	R
7	I	O	U	R	M
8	D	F	R	K	Q
9	S	R	W	D	E

- A 03,99,57,77
- B 44,55,42,66
- C 41,00,02,78
- D 65,02,00,43

Answer: B

Explanation:

- (A) : 03,99,57,77 = GERU
- (B) : 44,55,42,66 = GEAR
- (C) : 41,00,02,78 = GAER
- (D) : 65,02,00,43 = GEAN

=> Ans - (B)

Question 22

Introducing a boy, a girl says, "He is the son of the only sister of my mother's brother". How is the boy related to that girl?

- A Father-in-law
- B Brother
- C Cousin
- D Niece

Answer: B

Explanation:

Only sister of the girl's mother's brother, => girl's mother

Now, son of girl's mother = girl's brother

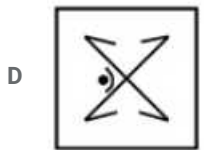
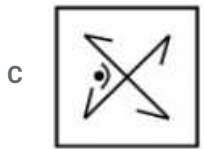
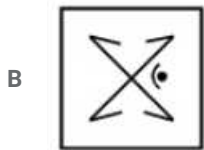
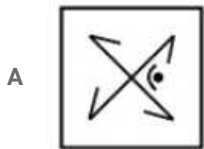
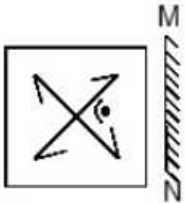
Thus, the boy is the brother of that girl.

=> Ans - (B)

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Question 23

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



Answer: C

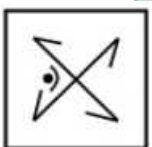
Explanation:

If a mirror is placed on the line MN,

The facing of the figure to the left and right direction changes to opposite direction in mirror image (right facing changes to left and vice versa)

The dot on the right side of the figure will be on the left side in the mirror image

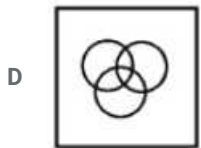
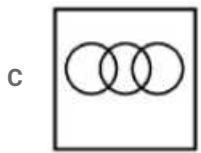
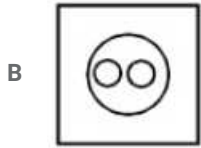
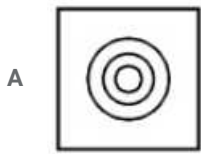
∴ The mirror image of the given figure is



Hence, the correct answer is Option C

Question 24

Identify the diagram that best represents the relationship among the given classes.
Society, Friends, Enemies

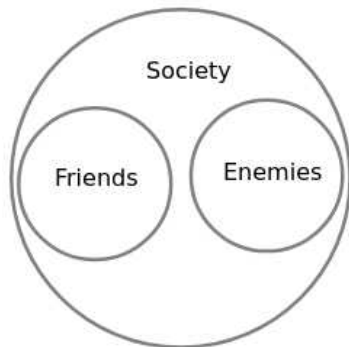


Answer: B

Explanation:

In the Society there will be Friends and Enemies where as Friends and Enemies are two opposite entities

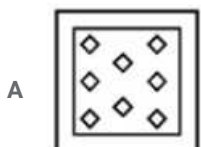
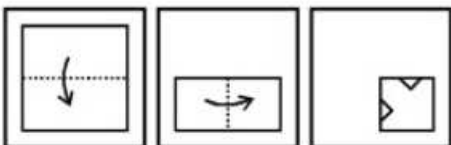
∴ The diagram that best represents the relationship between them is

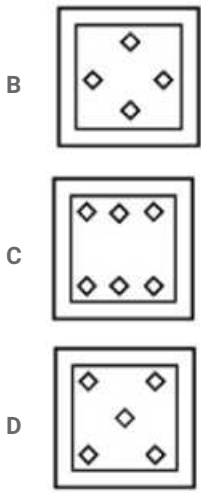


Hence, the correct answer is Option B

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: B

Explanation:

When the paper is unfolded first to the left, a rhombus will appear at the bottom the paper.

When the paper is unfolded again to the top, three rhombus will appear at the top, left, right of the paper.

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



Hence, the correct answer is Option B

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General Awareness

Instructions

For the following questions answer them individually

Question 26

Who built the Buddhist Monuments at Sanchi?

- A Mughal Dynasty
- B Maurya Dynasty
- C Gupta Dynasty
- D Chola Dynasty

Answer: B

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Question 27

Gulzar won Oscars for the movie "Slumdog Millionaire" in the category of ____ .

- A Best Sound Mixing
- B Best Original Score

- C Best Original Song
- D Best Foreign Language Film

Answer: C

Question 28

Which of the following is a primary function of haemoglobin?

- A Utilization of energy
- B Prevention of anaemia
- C Destruction of bacteria
- D To transport oxygen

Answer: D

Question 29

Vascular bundles are absent in_____.

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

Answer: A

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Question 30

Sauria Lacertidae is the scientific name of_____.

- A Crocodile
- B Hippopotamus
- C Lizard
- D House fly

Answer: C

Question 31

In chemistry, soap is a salt of a _____ .

- A Fatty acid
- B Glycol
- C Phosphorus
- D Ammonium Carbonate

Answer: A

Question 32

A _____ is a pair of forces, equal in magnitude, oppositely directed, and displaced by perpendicular distance or moment.

- A bond
- B couple
- C pair
- D duo

Answer: B

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Question 33

Which of these is not an Operating System?

- A Android
- B iOS
- C HTML
- D Symbian

Answer: C

Question 34

Chapchar Kut is a festival of which state?

- A Manipur
- B Nagaland
- C Mizoram
- D Meghalaya

Answer: C

Question 35

Find arc elasticity of demand, if quantity demanded falls from 750 units to 650 units when price of the item is increased from Rs 15 to Rs 20?

- A 0.5
- B -0.5
- C -2
- D 2

Answer: B

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Question 36

In which stage of the business cycle the inventory stock will be the highest?

- A Boom
- B Depression
- C Recession
- D Recovery

Answer: B

Question 37

Which type of pathogen causes the water-borne disease SARS (Severe Acute Respiratory Syndrome)?

- A Viral
- B Parasitic
- C Protozoan
- D Bacterial

Answer: A

Question 38

Excessive richness of nutrients in a lake or other body of water is called ____ .

- A Biomagnification
- B Global Warming
- C Salination
- D Eutrophication

Answer: D

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Question 39

Which of the following is a Direct tax?

- A Excise Duty
- B Customs Duty
- C Service Tax
- D Wealth tax

Answer: D

Question 40

The boundary line between India and Pakistan is called _____.

- A Mc Mohan line
- B Maginot line
- C Radcliffe line
- D Sir Creek

Answer: C

Question 41

Which city is located on the banks of the river Mahanadi?

- A Bangalore
- B Cuttack
- C Badrinath
- D Kota

Answer: B

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Question 42

When was the battle of Haldighati fought?

- A 1776
- B 1676
- C 1576
- D 1476

Answer: C

Question 43

In 1498, which Portuguese explorer discovered a new sea route from Europe to India?

- A Vasco da Gama
- B Christopher Columbus
- C Sir Francis Drake
- D John Cabot

Answer: A

Question 44

Who Invented Aspirin?

- A Ruth Handler
- B John Harington
- C Rowland Hill
- D Felix Hoffmann

Answer: D

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Question 45

A larger force on a rotating body results in larger ____.

- A mass
- B torque
- C axis of rotation
- D centre of mass

Answer: B

Question 46

What is the unit of the physical quantity, Magnetic flux density?

- A siemens
- B weber
- C henry
- D tesla

Answer: D

Question 47

Article 24 of the Indian Constitution "Prohibition of employment of children in factories, etc" deals with?

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

Answer: A

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Question 48

Article 134A of the Indian Constitution "Certificate for appeal to the Supreme Court" deals with?

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

Answer: B

Question 49

Highest number of test hundreds is scored by _____.

- A Jacques Kallis
- B Sachin Tendulkar
- C Ricky Ponting
- D Brian Lara

Answer: B

Question 50

Who is the author of "Can Love Happen Twice"?

- A Keshav Aneel
- B Ravinder Singh
- C Sudeep Nagarkar
- D Aravind Adiga

Answer: B

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English

Instructions

For the following questions answer them individually

Question 51

Select the word with the correct spelling.

- A isometry
- B artfully
- C mudling
- D carkasses

Answer: B

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Question 52

Select the antonym of privy

- A ulterior
- B obscure
- C covert
- D public

Answer: D

Question 53

Improve the bracketed part of the sentence.

It is essential (thorough cleaning) the mixer after each batch.

- A to clean thoroughly
- B to through clean
- C to cleaning thoroughly
- D no improvement

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.

"You can do this job" said Nikki to Jyoti

- A Nikki told Jyoti she could do that job.
- B Nikki told Jyoti she could do this job.
- C Nikki told Jyoti that she could do that job.
- D Nikki told Jyoti that, that she could do this job.

Answer: C

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Question 55

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

The kitten sat up(A)/the glass roof, and yawned(B)/and blinked its round eyes.(C)/No error(D)

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

Answer: A

Question 56

In the following question, out of the four alternatives, select the alternative which best expresses the meaning of the idiom/phrase. **to bend over backwards**

- A to accommodate every unreasonable request usually without getting anything back
- B stepping away from an unpleasant situation
- C to make every effort to achieve something, especially to be fair or helpful
- D submitting oneself completely to a higher authority

Answer: C

Question 57

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 office boy vacuums and dusts the office every morning.

- A Every morning the office was vacuumed and dusted by the office boy.
- B Every morning the office had been vacuumed and dusted by the office boy.
- C Every morning the office is vacuumed and dusted by the office boy.
- D Every morning the office has been vacuumed and dusted by the office boy.

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. **feeling or showing deep and solemn respect.**

- A pious
- B reverent
- C humble
- D devout

Answer: B

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.

I have been paying taxes for the past five years yet I do not have the _____ to vote as I am not a citizen.

- A authority
- B responsibility
- C right
- D claim

Answer: C

Question 60

Select the antonym of to chuckle

- A to snicker
- B to guffaw
- C to lament
- D to chortle

Answer: C

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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. To declare invalid an official agreement, decision, or result.

- A to annul
- B to negate
- C to efface
- D to undo

Answer: A

Question 62

Rearrange the parts of the sentence in correct order.

This may sound like

P-the actual problem

Q-at the scale of

R-a lot, until one looks

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

Answer: B

Question 63

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'. Which part of the sentence has an error?

Ajay glanced up(A)/at her laughing(B)/and watched her intently.(C)No error(D)

- A A
- B B

C C

D D

Answer: B

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Question 64

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.

I didn't know he had such an _____ collection of books.

A sweeping

B major

C elaborate

D extensive

Answer: D

Question 65

Select the synonym of caricature

A adulation

B eulogy

C cartoon

D hokum

Answer: C

Question 66

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.

I didn't know he had such an _____ collection of books.

A life is always choosing between two options

B challenges are hidden opportunities

C escaping one difficulty but falling into another

D faced with two equally undesirable alternatives

Answer: D

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Question 67

Select the word with the correct spelling.

A gondolas

- B snubbing
- C smalters
- D stradle

Answer: A

Question 68

Improve the bracketed part of the sentence.
Ravi (hadn't ought to) have done that to Shaina.

- A ought not
- B ought not to
- C have not ought to
- D no improvement

Answer: B

Question 69

Select the synonym of to predispose

- A to assail
- B to thwart
- C to defy
- D to incline

Answer: D

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Question 70

Rearrange the parts of the sentence in correct order.

He must actually announce
P-how he intends to bring
Q-the businessman to book
R-a plan of action detailing

- A RPQ
- B RQP
- C PQR
- D QPR

Answer: A

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.

There _____ three components to the UGC's package governing the faculty. Of these, mostly two have proved to be _____ of contention between the two parties. These have to do with the _____ workload for teachers and student evaluation of courses, including _____ the lecturer herself. But it is the third component that needs to be _____ for its suitability.

There _____ three components to the UGC's package governing the faculty.

Question 71

There _____ three components to the UGC's package governing the faculty.

- A is
- B have been
- C had been
- D are

Answer: D

Question 72

Of these, mostly two have proved to be _____ of contention between the two parties.

- A bones
- B muscles
- C teeth
- D nails

Answer: A

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Question 73

_____ of contention between the two parties. These have to do with the _____ workload for teachers and student evaluation of courses

- A mandated
- B voluntary
- C charged
- D summoned

Answer: A

Question 74

including _____ the lecturer herself.

- A for
- B of
- C with

D about

Answer: B

Question 75

But it is the third component that needs to be _____ for its suitability.

A pored over

B scrutinised

C scanned

D perused

Answer: B

Explanation:

End Group:

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Mathematics

Instructions

For the following questions answer them individually

Question 76

The two numbers are 63 and 77, HCF is 7, Find the LCM.

A 668

B 693

C 674

D 680

Answer: B

Explanation:

$$\text{H.C.F. (a,b)} \times \text{L.C.M. (a,b)} = a \times b$$

The numbers $a = 63$ and $b = 77$ and $\text{HCF} = 7$

$$\Rightarrow \text{L.C.M.} = \frac{a \times b}{\text{HCF}}$$

$$= \frac{63 \times 77}{7} = 63 \times 11$$

$$= 693$$

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Question 77

The total cost of a washing machine with an electric chimney was Rs 57,750. The electric chimney was sold at a profit of 34% and the washing machine at a loss of 24%. If the sale price was the same in both the items, then the cost price of the cheaper item was _____.

A Rs 26850

- B Rs 20900
- C Rs 28875
- D Rs 25850

Answer: B

Explanation:

Let cost price of washing machine = $Rs.100x$

\Rightarrow Cost price of chimney = $Rs.(57,750 - 100x)$

Selling price of chimney (34% profit) = Selling price of washing machine (24% loss)

$$\Rightarrow \frac{134}{100} \times (57,750 - 100x) = \frac{76}{100} \times 100x$$

$$\Rightarrow 77385 - 134x = 76x$$

$$\Rightarrow x = \frac{77385}{210} = 368.5$$

$$\Rightarrow \text{Cost price of washing machine} = 100 \times 368.5 = Rs.36,850$$

$$\Rightarrow \text{Cost price of cooker} = 57,750 - 36,850 = Rs.20,900$$

\therefore Cooker is cheaper with cost price = Rs. 20,900

Question 78

If $(7 - 12x) - (3x - 7) = 14$, then the value of x is ____.

- A -4
- B 0
- C 5
- D 2

Answer: B

Explanation:

Expression : $(7 - 12x) - (3x - 7) = 14$

$$\Rightarrow 7 - 12x - 3x + 7 = 14$$

$$\Rightarrow -15x = 14 - 14 = 0$$

$$\Rightarrow x = \frac{0}{15} = 0$$

\Rightarrow Ans - (B)

Question 79

Find the roots of the quadratic equation $6x^2 - 11x - 35 = 0$

- A $5/3, -7/2$
- B $-5/3, 7/2$
- C $-3/5, 2/7$
- D $3/5, -2/7$

Answer: B

Explanation:

Expression : $6x^2 - 11x - 35 = 0$

$$\Rightarrow 6x^2 - 21x + 10x - 35 = 0$$

$$\Rightarrow 3x(2x - 7) + 5(2x - 7) = 0$$

$$\Rightarrow (3x + 5)(2x - 7) = 0$$

$$\Rightarrow x = \frac{7}{2}, \frac{-5}{3}$$

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Question 80

If $5x + 2 < 4x + 1$ and $2(x - 4) - 2 \leq 4x - 1$ then x can take which of the following values?

- A 0
- B 2
- C 4
- D -2

Answer: D

Explanation:

Expression 1 : $5x + 2 < 4x + 1$

$$\Rightarrow 5x - 4x < 1 - 2$$

$$\Rightarrow x < -1 \text{ -----(i)}$$

Expression 2 : $2(x - 4) - 2 \leq 4x - 1$

$$\Rightarrow 2x - 10 \leq 4x - 1$$

$$\Rightarrow 4x - 2x \geq 1 - 10$$

$$\Rightarrow x \geq \frac{-9}{2} \text{ -----(ii)}$$

Combining inequalities (i) and (ii), we get : $\frac{-9}{2} \leq x < -1$

Thus, values that x can take = -4, -3, -2

\Rightarrow Ans - (D)

Question 81

Two students appeared for an examination. One of them secured 10 marks more than the other and his marks were 75% of the sum of their marks. The marks obtained by them are

- A 52 and 42
- B 68 and 58
- C 63 and 53
- D 15 and 5

Answer: D

Explanation:

Let marks scored by 1st student = x

$$\Rightarrow \text{Marks scored by another student} = (x + 10)$$

$$\text{According to question, } \Rightarrow (x + 10) = \frac{75}{100} \times (x + x + 10)$$

$$\Rightarrow x + 10 = \frac{3}{2} \times (x + 5)$$

$$\Rightarrow 2x + 20 = 3x + 15$$

$$\Rightarrow x = 20 - 15 = 5$$

\therefore Marks scored by other student = $5 + 10 = 15$

Question 82

By increasing the price of entry ticket to a fair in the ratio 3:7, the number of visitors to the fair has decreased in the ratio 16:13. In what ratio has the total collection increased or decreased?

A decreased in the ratio 91:48

B increased in the ratio 48:91

C increased in the ratio 39:112

D decreased in the ratio 112:39

Answer: B

Explanation:

Let cost of original ticket = Rs 3 and number of visitors = 160

$$\Rightarrow \text{Original revenue} = 3 \times 160 = \text{Rs } 480$$

After increase in cost of ticket

New cost of ticket = Rs 7 and number of visitors = 130

$$\Rightarrow \text{New Revenue} = 7 \times 130 = \text{Rs } 910$$

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

$$\therefore \text{Increase of total collection ratio} = \frac{480}{910} = 48 : 91$$

\Rightarrow Ans - (B)

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Question 83

To cover a distance of 315 km in 2.8 hours what should be the average speed of the car in meters/second?

A 112.5 m/s

B 56.25 m/s

C 62.5 m/s

D 31.25 m/s

Answer: D

Explanation:

Distance = 315 km and time = 2.8 hours

Speed = distance/time

$$\Rightarrow \text{Speed} = \frac{315}{2.8} = 112.5 \text{ km/hr}$$

$$\therefore \text{Speed in meters/second} = \frac{112.5}{3.6} = 31.25$$

$$= 31.25 \text{ m/s}$$

Question 84

In an arithmetic progression, if 17 is the 3rd term, -25 is the 17th term, then -1 is which term?

- A 10
- B 11
- C 9
- D 12

Answer: C

Explanation:

The n^{th} term of an A.P. = $a + (n - 1)d$, where 'a' is the first term, 'n' is the number of terms and 'd' is the common difference.

$$\text{3rd term, } A_3 = a + (3 - 1)d = 17$$

$$\Rightarrow a + 2d = 17 \text{ -----(i)}$$

$$\text{Similarly, 17th term, } A_{17} = a + 16d = -25 \text{ -----(ii)}$$

Subtracting equation (i) from (ii), we get :

$$\Rightarrow (16d - 2d) = -25 - 17$$

$$\Rightarrow d = \frac{-42}{14} = -3$$

$$\text{Substituting it in equation (i), } \Rightarrow a - 6 = 17$$

$$\Rightarrow a = 17 + 6 = 23$$

Let n^{th} term = -1

$$\Rightarrow a + (n - 1)d = -1$$

$$\Rightarrow 23 + (n - 1)(-3) = -1$$

$$\Rightarrow (n - 1)(-3) = -1 - 23 = -24$$

$$\Rightarrow (n - 1) = \frac{-24}{-3} = 8$$

$$\Rightarrow n = 8 + 1 = 9$$

Question 85

The distance between the points (4,-8) and (k,0) is 10. Find k?

- A k = 6 or -2
- B k = 10 or -2
- C k = 10 or -4
- D k = 6 or -4

Answer: B

Explanation:

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

Now, distance between points (4,-8) and (k,0) = 10

$$\Rightarrow \sqrt{(0 + 8)^2 + (k - 4)^2} = 10$$

$$\Rightarrow 64 + (k^2 - 8k + 16) = (10)^2 = 100$$

$$\Rightarrow k^2 - 8k = 100 - 64 - 16$$

$$\Rightarrow k^2 - 8k - 20 = 0$$

$$\Rightarrow k^2 + 2k - 10k - 20 = 0$$

$$\Rightarrow k(k + 2) - 10(k + 2) = 0$$

$$\Rightarrow (k + 2)(k - 10) = 0$$

$$\Rightarrow k = -2, 10$$

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Question 86

Praful has done $\frac{1}{2}$ of a job in 30 days, Sarabjit completes the rest of the job in 10 days. In how many days can they together do the job?

- A 30 days
- B 45 days
- C 15 days
- D 60 days

Answer: C

Explanation:

Let total work to be done = 60 units

Praful has done $\frac{1}{2}$ of a job i.e. $\frac{60}{2} = 30$ units in 30 days

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

Work left = $60 - 30 = 30$ units which is done by Sarabjit in 10 days

\Rightarrow Sarabjit's efficiency = $\frac{30}{10} = 3$ units/day

Praful and Sarabjit 1 day's work = $1 + 3 = 4$ units/day

\therefore Time taken by them together to complete the work = $\frac{60}{4} = 15$ days

Question 87

Ticket for an adult is Rs 500 and a child is Rs 200. 1 child goes free with two adults. If a group has 20 adults and 8 children what will be the discount the group get?

- A 53.43 percent
- B 13.79 percent
- C 32.2 percent
- D 35.06 percent

Answer: B

Explanation:

Cost price of adult ticket = Rs. 500 and child ticket = Rs. 200

For 20 adults and 8 children, total cost = $(20 \times 500) + (8 \times 200)$

= Rs. $(10,000 + 1,600)$ = Rs. 11,600

If one child goes free with two adults, \Rightarrow 8 children will go with 16 adults, thus all the children will go for free.

Cost of 20 adults = $20 \times 500 = \text{Rs.}10,000$

$$\text{Discount \%} = \frac{11600 - 10000}{11600} \times 100$$

$$= \frac{1600}{116} = 13.79\%$$

Question 88

A factory buys 8 machines - 3 Machine A, 2 Machine B and rest Machine C costing Rs 100000, Rs 80000 and Rs 45000 respectively. Calculate the average cost of these machines?

- A 74375
- B 75000
- C 75625
- D 72875

Answer: A

Explanation:

Cost of machines A, B and C respectively are : Rs. 1,00,000 , 80,000 and 45,000

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

$$\Rightarrow \text{Total cost} = (3 \times 100000) + (2 \times 80000) + (3 \times 45000)$$

$$= 300000 + 160000 + 135000 = \text{Rs. } 5,95,000$$

$$\therefore \text{Average cost} = \frac{5,95,000}{8} = \text{Rs. } 74,375$$

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Question 89

What is the equation of the line which passes through the points (2,3) and (-4,1)?

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

Answer: A

Explanation:

$$\text{Equation of line passing through points } (x_1, y_1) \text{ and } (x_2, y_2) = (y - y_1) = \frac{(y_2 - y_1)}{(x_2 - x_1)} (x - x_1)$$

Points given = (2,3) and (-4,1)

$$\Rightarrow \text{Equation of line} = (y - 3) = \frac{(1-3)}{(-4-2)} (x - 2)$$

$$\Rightarrow (y - 3) = \frac{1}{3} (x - 2)$$

$$\Rightarrow 3y - 9 = x - 2$$

$$\Rightarrow x - 3y = -9 + 2 = -7$$

Question 90

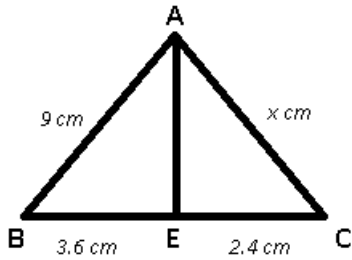
In ΔABC , the angle bisector of $\angle A$ cuts BC at E. Find length of AC, if lengths of AB, BE and EC are 9 cm, 3.6 cm and 2.4 cm?

- A 5.4 cm

- B 8 cm
- C 4.8 cm
- D 6 cm

Answer: D

Explanation:



AE is the angle bisector and let AC = x cm

Using angle bisector theorem,

$$\Rightarrow \frac{AB}{BE} = \frac{AC}{CE}$$

$$\Rightarrow \frac{9}{3.6} = \frac{x}{2.4}$$

$$\Rightarrow x = 2.4 \times 2.5 = 6 \text{ cm}$$

Question 91

The effective annual rate of interest corresponding to a nominal rate of 22% per annum payable half-yearly is

- A 44 percent
- B 23.21 percent
- C 46.42 percent
- D 22 percent

Answer: B

Explanation:

Let sum be = Rs. $100x$

Rate of interest = 22% under compound interest half yearly

$$\text{Amount after 1 year} = P \left(1 + \frac{R}{2 \times 100}\right)^{2 \times T}$$

$$= 100x \left(1 + \frac{22}{200}\right)^{2 \times 1}$$

$$= 100x \left(\frac{111}{100}\right)^2 = \frac{111 \times 111 \times x}{100}$$

$$= \text{Rs. } 123.21x$$

$$\Rightarrow \text{Compound Interest} = \text{Rs. } (123.21x - 100x) = \text{Rs. } 23.21x$$

$$\therefore \text{Effective rate of interest} = \frac{23.21x}{100x} \times 100$$

$$= 23.21\%$$

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Question 92

In a triangle, the length of the opposite side of the angle which measures 45° is $8\sqrt{2}$ cm, what is the length of the side opposite to the angle which measures 90° ?

- A 16 cm
- B $4\sqrt{3}$ cm
- C $8\sqrt{3}$ cm
- D $6\sqrt{3}$ cm

Answer: A

Explanation:

In the given triangle, two angles are 90° and 45° , \Rightarrow Third angle = 45°

\Rightarrow The given triangle is isosceles right angled triangle with measure of equal sides = $8\sqrt{2}$ cm

Let length of hypotenuse = h cm

$$\Rightarrow h^2 = (8\sqrt{2})^2 + (8\sqrt{2})^2$$

$$\Rightarrow h^2 = 128 + 128 = 256$$

$$\Rightarrow h = \sqrt{256} = 16 \text{ cm}$$

Question 93

If the volume of a cylinder is 2156 cubic cm and height is 14 cm, find its radius?

- A 14 cm
- B 21 cm
- C 3.5 cm
- D 7 cm

Answer: D

Explanation:

Let radius = r cm and height = 14 cm

Volume of cylinder = $\pi r^2 h = 2156$

$$\Rightarrow \frac{22}{7} \times (r)^2 \times 14 = 2156$$

$$\Rightarrow 22 \times (r)^2 \times 2 = 2156$$

$$\Rightarrow (r)^2 = \frac{2156}{44} = 49$$

$$\Rightarrow r = \sqrt{49} = 7 \text{ cm}$$

Question 94

What is the value of $\cot 4\pi/3$?

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

Answer: A

Explanation:

Expression : $\cot 4\pi/3$

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

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

=> Ans - (A)

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Question 95

$2\cos\left[\frac{C+D}{2}\right] \cdot \cos\left[\frac{C-D}{2}\right]$ is equal to

- A $\cos C - \cos D$
- B $\sin C + \sin D$
- C $\cos C + \cos D$
- D $\sin C - \sin D$

Answer: C

Explanation:

Expression : $2\cos\left[\frac{C+D}{2}\right] \cos\left[\frac{C-D}{2}\right]$

Using the formula : $\cos x \cdot \cos y = \frac{1}{2} [\cos(x+y) + \cos(x-y)]$ -----(i)

Substituting $(x+y) = C$ and $(x-y) = D$

=> $x = \frac{C+D}{2}$ and $y = \frac{C-D}{2}$ in equation (i),

$$\Rightarrow \cos\left(\frac{C+D}{2}\right) \cdot \cos\left(\frac{C-D}{2}\right) = \frac{1}{2} [\cos C + \cos D]$$

$$\Rightarrow 2 \cdot \cos\left(\frac{C+D}{2}\right) \cdot \cos\left(\frac{C-D}{2}\right) = \cos C + \cos D$$

=> Ans - (C)

Question 96

$\cot^2 A \cos^2 A$ is equal to

- A $\cot^2 A + \cos^2 A$
- B $\tan^2 A - \cos^2 A$
- C $\cot^2 A - \cos^2 A$
- D $\tan^2 A + \cos^2 A$

Answer: C

Explanation:

Expression : $\cot^2 A \cos^2 A$

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

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

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

$$= \cot^2 A - \cos^2 A$$

=> Ans - (C)

Question 97

Refer the below data table and answer the following question.

	Quantity of stock	Average cost
Mobile Phones	70	9000
Cameras	70	9000
TVs	82	49000
Refrigerators	88	49000
Acs	37	27000

What is the value of the total stock (in lakh rupees) ?

- A 1058.9
- B 143
- C 347
- D 105.89

Answer: D

Explanation:

Total cost of mobiles = $70 \times 9000 = \text{Rs. } 6,30,000$

Total cost of Cameras = $70 \times 9000 = \text{Rs. } 6,30,000$

Total cost of TVs = $82 \times 49000 = \text{Rs. } 40,18,000$

Total cost of Refrigerator = $88 \times 49000 = \text{Rs. } 43,12,000$

Total cost of AC = $37 \times 27000 = \text{Rs. } 9,99,000$

\therefore Total cost = $6,30,000 + 6,30,000 + 40,18,000 + 43,12,000 + 9,99,000 = \text{Rs. } 1,05,89,000$

Total cost in lakhs = Rs 105.89 lakhs

=> Ans - (D)

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Question 98

Refer the data table below and answer the following question ?

Year	Ratio Import/Export
2011	0.7
2012	1.1
2013	0.9
2014	1.5
2015	1.2

If the imports in 2012 was Rs. 1000 crores and the total exports in the years 2012 and 2013 together was Rs. 3200 crores, then the imports in 2013 was?

- A 2062
- B 2291
- C 909
- D 2545

Answer: A

Explanation:

Imports in 2012 = Rs. 1000 crores

Let Exports in 2012 = Rs. y crores

Ratio of imports and exports in 2012 = 1.1

$$\Rightarrow \frac{1000}{y} = 1.1$$

$$\Rightarrow y = \frac{1000}{1.1} = 909.09$$

Total exports In the years 2012 and 2013 together = Rs. 3200 crores

\Rightarrow Exports in 2013 = Rs. $(3200 - 909.09)$ crores = Rs. 2290.91 crores

Let imports in 2013 = Rs. x crores

Ratio of imports and exports in 2013 = $\frac{x}{2290.91} = 0.9$

$$\Rightarrow x = 2290.91 \times 0.9 = 2061.819 \approx 2062$$

\therefore Imports in 2013 was Rs. 2062 crores

\Rightarrow Ans - (A)

Question 99

Refer the data table below and answer the following question ?

Measured on Birthday	Hight of the child (in cm)
4	100
5	105
6	110
7	120
8	130
9	140
10	145
11	155
12	165
13	170
14	175
15	185
16	195

What was the increase in the height of the children from the 5th Birthday to the 14th Birthday?

- A 75 cms
- B 80 cms
- C 65 cms
- D 70 cms

Answer: D

Explanation:

Height on 5th birthday = 105 cm

Height on 14th birthday = 175 cm

Increase in height = $175 - 105 = 70$ cm

\Rightarrow Ans - (D)

Question 100

Refer the data table below and answer the following question ?

Deep Sleep	25
Dreaming	10
Light Sleep	5
Extremely light Sleep	25
Awake	35

Between 10pm to 6am, a fitness band records the following data. How long was the user Dreaming or in Extremely light sleep?

- A 2.8 hours
- B 2.3 hours
- C 1.3 hours
- D 3.3 hours

Answer: A

Explanation:

Total time between 10 pm to 6 am = 8 hours

% time spent in dreaming and in Extremely light sleep = $10 + 25 = 35\%$

=> Time spent in dreaming and in extremely light sleep = $\frac{35}{100} \times 8$

= $\frac{14}{5} = 2.8$ hours

=> Ans - (A)

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