



2017 SSC CGL 17 Aug Shift-2

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Instructions

For the following questions answer them individually

Question 1

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'.

Water was dripping (a:/ of the trees, and (b:/ the grass was wet. (c:/No Error (d:

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

Answer: B

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Question 2

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'.

Pravin sat up on the (a:/ sofa, with his legs (b:/ tucked down him. (c:/No Error (d:

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

Answer: C

Question 3

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.

At night, the hungry orphan would sneak into the kitchen and _____ tiny amounts of food

- A prefer
- B lifter
- C differ
- D pilfer

Answer: D

Question 4

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 only _____ person in the wacky family, the sensible girl felt like the odd woman out.

- A insane
- B vain
- C sane
- D main

Answer: C

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Question 5

In the following question, out of the four alternatives, select the word similar in meaning to the word given.

Piquancy

- A Bland
- B Flavouring
- C Insipid
- D Tedious

Answer: B

Question 6

In the following question, out of the four alternatives, select the word similar in meaning to the word given.

To Confront

- A To Avoid
- B To Dodge
- C To Yield
- D To Accost

Answer: D

Question 7

In the following question, out of the four alternatives, select the word opposite in meaning to the word given.

Savant

- A Amateur
- B Academic
- C Pundit
- D Egghead

Answer: A

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Question 8

In the following question, out of the four alternatives, select the word opposite in meaning to the word given.

To Indict

- A To Arraign
- B To Censure
- C To Exonerate
- D To Impeach

Answer: C

Question 9

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

To Have bitten off more than you can chew

- A To eat voraciously and then fall sick
- B To behave disrespectfully towards elders and then repent the act
- C To have tried to do something which is too difficult
- D To have missed a golden opportunity and after that willing to put twice the effort to recover the loss

Answer: C

Question 10

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

Out of print

- A Not able to print due to being short on paper
- B A book no longer available from the publisher
- C Intentionally not mention some items in the article or book
- D All publishers refuse to publish your book

Answer: B

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Question 11

In the following question, out of the four alternatives, select the alternative which will improve the bracketed part of the sentence. In case no improvement is needed, select "no improvement".

I'm (having to) too much fun.

- A having
- B had
- C has

D no improvement

Answer: A

Question 12

In the following question, out of the four alternatives, select the alternative which will improve the bracketed part of the sentence. In case no improvement is needed, select "no improvement".

What would the cavalry (doing) out here?

A be doing

B be done

C done

D no improvement

Answer: A

Question 13

In the following question, out of the four alternatives, select the alternative which is the best substitute of the words/sentence.

In exactly the same words as were used originally

A Verbatim

B Offbeat

C Divergent

D Contrary

Answer: A

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Question 14

In the following question, out of the four alternatives, select the alternative which is the best substitute of the words/sentence.

A person inclined to question or doubt accepted opinions

A Adherent

B Sceptic

C Zealot

D Disciple

Answer: B

Question 15

In the following question, four words are given out of which one word is correctly spelt. Select the correctly spelt word.

A Ditheering

B Dethering

- C Dithering
- D Detheering

Answer: C

Question 16

In the following question, four words are given out of which one word is correctly spelt. Select the correctly spelt word.

- A Throtled
- B Throttled
- C Throtlede
- D Throttled

Answer: D

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Question 17

The question below consists of a set of labelled sentences. Out of the four options given, select the most logical order of the sentences to form a coherent paragraph.

Children are sensitive

X-to what happens around them and are

Y-enthusiastic about working on

Z-plays that reflect their lives

- A ZYX
- B XYZ
- C ZXY
- D YZX

Answer: B

Question 18

The question below consists of a set of labelled sentences. Out of the four options given, select the most logical order of the sentences to form a coherent paragraph.

But this does not mean

X-phenomena to the body

Y-is a meaningless expression

Z-that the reference of mental

- A YZX
- B ZXY
- C YXZ
- D XZY

Answer: B

Question 19

In the following question, a sentence has been given in Active/Passive voice. Out of the four alternatives suggested, select the one which best expresses the same sentence in Passive/Active voice.

The travel agent is making all the reservations.

- A All the reservations is made by the travel agent.
- B All the reserving will be made by the travel agent.
- C All the reservations are being made by the travel agent.
- D All the reserving is made by the travel agent.

Answer: C

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Question 20

In the following question, a sentence has been given in Direct/Indirect speech. Out of the four alternatives suggested, select the one which best expresses the same sentence in Indirect/Direct speech.

He said to the dentist, "I have a toothache."

- A He told the dentist that I have a toothache.
- B He told the dentist that he had gotten a toothache.
- C He told the dentist that he had a toothache.
- D He told the dentist that I have a gotten toothache.

Answer: C

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.

The Trikonasana, or triangle pose, stimulates the function of the entire body and ____ (1) ____ a lateral (side) stretch to the spine. It helps reduce blood pressure, stress, and anxiety. Practise this asana every day and you'll ____ (2) ____ strength in the ankles, thighs, knees, hips, calves and hamstrings. All standing poses ____ (3) ____ the cardiovascular system, so the more you do it, the ____ (4) ____ your stamina will become. The aim is never to overdo it, but to engage regularly, ____ (5) ____ that you get stronger and more stable over time.

Question 21

(1)

- A given
- B gave
- C to give
- D gives

Answer: D

Question 22

(2)

A gaining

B gain

C gained

D to gain

Answer: B

Question 23

(3)

A built

B build

C building

D to build

Answer: B

Question 24

(4)

A best

B better

C good

D too good

Answer: B

Question 25

(5)

A if

B of

C so

D to

Answer: C

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Reasoning

Instructions

For the following questions answer them individually

Question 26

Select the related word from the given alternatives.

Office : Colleagues :: Home : ?

- A Rest
- B Work
- C Friends
- D Family

Answer: D

Explanation:

The members in the office are called colleagues while the person in the home are family members.

=> Ans - (D)

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Question 27

Select the related letters from the given alternatives.

XVT : RPN :: LJH : ?

- A FDB
- B ECA
- C KIG
- D QOM

Answer: A

Explanation:

Expression = XVT : RPN

The pattern followed is :

X	V	T
(-6)	(-6)	(-6)
R	P	N

Similarly, for LJH :

L	J	H
(-6)	(-6)	(-6)
F	D	B

=> Ans - (A)

Question 28

Select the related number from the given alternatives.

0.04 : 0.2 :: 0.09 : ?

- A 0.3
- B 0.6

C 0.9

D 2

Answer: A

Explanation:

Expression = $0.04 : 0.2 :: 0.09 : ?$

The pattern followed is = $n : \sqrt{n}$

Eg = $0.04 : \sqrt{0.04} = 0.04 : 0.2$

Similarly, $\sqrt{0.09} = 0.3$

=> Ans - (A)

Question 29

Select the odd word from the given alternatives.

A Chair

B Bench

C Bed

D Sofa

Answer: C

Explanation:

The primary use of a chair, bench and sofa is to sit, while the primary use of a bed is to sleep, hence it is the odd one out.

=> Ans - (C)

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Question 30

Select the odd letters from the given alternatives.

A CEG

B UXZ

C ORT

D ILN

Answer: A

Explanation:

(A) : C (+2 letters) = E (+2 letters) = G

(B) : U (+3 letters) = X (+2 letters) = Z

(C) : O (+3 letters) = R (+2 letters) = T

(D) : I (+3 letters) = L (+2 letters) = N

=> Ans - (A)

Question 31

Select the odd number from the given alternatives.

- A 75
- B 65
- C 82
- D 85

Answer: C

Explanation:

Except 82, all other numbers are divisible by 5.

=> Ans - (C)

Question 32

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

isobar, artist, statute, teapot, otter, ?

- A pencil
- B erect
- C tongue
- D meter

Answer: B

Explanation:

Expression : isobar, artist, statute, teapot, otter, ?

The pattern followed is that the next word is formed by the last two letters of the previous word.

Eg : isobar -> artist -> statute -> teapot -> otter

Thus, next term will start with 'er' = erect

=> Ans - (B)

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Question 33

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

XX, XOx, XXXX, XXOXX, XXXXXX, ?

- A XXXOXXXX
- B XXXOXXX
- C XXXXXXXX
- D XXXOXXXO

Answer: B

Explanation:

Expression : XX, XOx, XXXX, XXOXX, XXXXXX, ?

The pattern followed is that in every alternate term 'O' is inserted between even number of X's

Thus, next term = XXXOXXX

=> Ans - (B)

Question 34

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

3, 5/3, 1/3, ?, -7/3, -11/3

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

Answer: C

Explanation:

The pattern followed is :

$$3 - \frac{4}{3} = \frac{5}{3}$$

$$\frac{5}{3} - \frac{4}{3} = \frac{1}{3}$$

$$\frac{1}{3} - \frac{4}{3} = \frac{-3}{3} = -1$$

$$-1 - \frac{4}{3} = \frac{-7}{3}$$

$$\frac{-7}{3} - \frac{4}{3} = \frac{-11}{3}$$

=> Ans - (C)

Question 35

Divit's birthday is on Friday 30th June. On what day of the week will be Samar's Birthday in the same year if Samar was born on 15th November?

- A Tuesday
- B Friday
- C Wednesday
- D Saturday

Answer: C

Explanation:

According to the question, 30th June is Friday

Similarly, odd days from July till 15th November = $(31 + 31 + 30 + 31 + 15) \% 7$

$$= 3 + 3 + 2 + 3 + 1 = 21$$

Now, dividing 21 by 7, remainder = 0

Thus, day on 15th November = Friday (+0) = Friday

=> Ans - (C)

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Question 36

The weights of 4 boxes are 100, 70, 50 and 90 kilograms. Which of the following cannot be the total weight, in kilograms, of any combination of these boxes and in a combination a box can be used only once?

- A 310
- B 260
- C 230
- D 210

Answer: C

Explanation:

Weights of 4 boxes = 100, 70, 50 and 90 kilograms

(A) : $310 = 50 + 70 + 90 + 100$

(B) : $260 = 70 + 90 + 100$

(C) : $230 =$ not possible

(D) : $210 = 50 + 70 + 90$

=> Ans - (C)

Question 37

From the given words, select the word which cannot be formed using the letters of the given word.

RECLINES

- A SINCE
- B RELIC
- C LINER
- D SCARE

Answer: D

Explanation:

The word RECLINES does not contain any 'A', and thus the word 'Scare' cannot be formed.

=> Ans - (D)

Question 38

If REGAINS is coded as QDFZHMR, then how will PRY be coded as?

- A BJX
- B OQX
- C LFT
- D PSU

Answer: B

Explanation:

REGAINS is coded as QDFZHMR

The pattern followed is :

R	E	G	A	I	N	S
(-1)	(-1)	(-1)	(-1)	(-1)	(-1)	(-1)
Q	D	F	Z	H	M	R

Similarly, for PRY :

P	R	Y
(-1)	(-1)	(-1)
O	Q	X

=> Ans - (B)

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Question 39

In a certain code language, '+' represents 'x', '-' represents '+', 'x' represents '÷' and '÷' represents '-'. What is the answer to the following question?

$$45 \times 5 + 2 - 20 = ?$$

A 17

B 81

C 38

D 64

Answer: C

Explanation:

$$\text{Expression} = 45 \times 5 + 2 - 20 = ?$$

$$\equiv 45 \div 5 \times 2 + 20$$

$$= 9 \times 2 + 20$$

$$= 18 + 20 = 38$$

=> Ans - (C)

Question 40

If $5@1=60$; $12@8=200$; $16@2=180$; then what is the value of $16@10=?$

A 32

B 11

C 9

D 260

Answer: D

Explanation:

The pattern followed is for $a@b = (a + b) \times 10$

$$\text{Eg } 5@1 = (5 + 1) \times 10 = 6 \times 10 = 60$$

$$\text{and } 12@8 = (12 + 8) \times 10 = 20 \times 10 = 200$$

$$\text{and } 16@2 = (16 + 2) \times 10 = 18 \times 10 = 180$$

$$\text{Similarly, } 16@10 = (16 + 10) \times 10 = 26 \times 10 = 260$$

=> Ans - (D)

Question 41

Select the missing number from the given responses

104	?	57
87	78	9
103	78	25

- A 35
- B 47
- C 54
- D 78

Answer: B

Explanation:

In each row, the number at the leftmost position is obtained by adding the other two.

Eg : $78 + 9 = 87$

and $78 + 25 = 103$

Similarly, $x + 57 = 104$

$\Rightarrow x = 104 - 57 = 47$

\Rightarrow Ans - (B)

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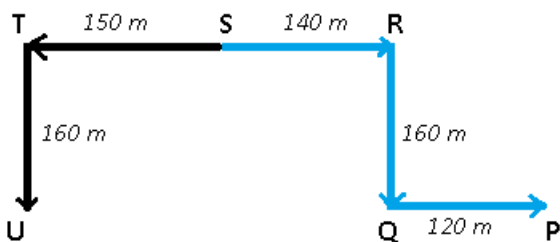
Question 42

Two women A and B are shopping in a mall. They start from the same point. A walks 150 m West, then turns to her left and walks 160 m. B walks 140 m East, then turns South and walks 160 m, then turns to her left and walks 120 m. Where is B with respect to A now?

- A 410 m West
- B 410 m East
- C 170 m East
- D 170 m West

Answer: B

Explanation:



Let both A and B start from point S. The path of A is represented by black while blue represents B's path.

A walks 150 m west and reaches T, and finally stops at point U by walking 160 m south of T.

Similarly, B walks 140 m east and reaches R and finally stops at point P.

Thus, $PU = 150 + 140 + 120 = 410$ m

∴ B is 410 m to the east of A.

=> Ans - (B)

Question 43

In the question a statement is given, followed by two arguments, I and II. You have to consider the statement to be true even if it seems to be at variance from commonly known facts. You have to decide which of the given arguments, if any, is a strong argument.

Statement : Should eating paan at public places be made punishable?

Argument I : Yes, people eat paan and spit and makes public places dirty.

Argument II : No, Indians love paan.

A if only argument I is strong.

B if only argument II is strong.

C if both I and II are strong.

D if neither I nor II is strong.

Answer: A

Explanation:

The first argument states the downsize of eating paan and presents data which is crucial to the outcome of the statement, thus it is a strong argument.

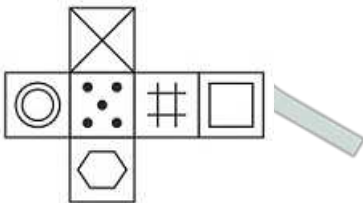
But, the second argument is a weak one because it does not answer the question.

Thus, only argument I is strong.

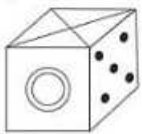
=> Ans - (A)

Question 44

Which of the following cube in the answer figure cannot be made based on the unfolded cube in the question figure?



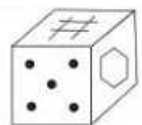
A



B



C

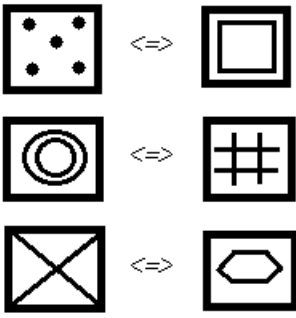


D None of these

Answer: D

Explanation:

When we fold the given figure, the circle with a '5 dots' sign will become the base of the cube and the side with empty square will become top, and thus they will face each other. Similarly, the sides which will face each other will be :



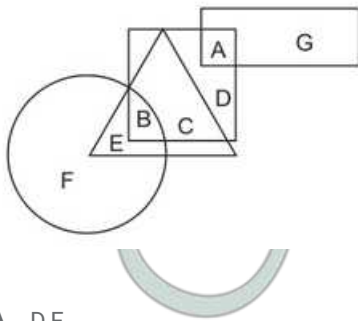
Since, the opposite sides cannot be adjacent in the cube, thus all the cubes are possible.

=> Ans - (D)

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Question 45

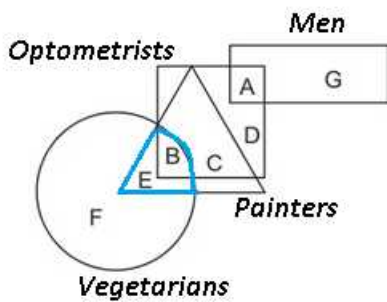
In the following figure, square represents Optometrists, triangle represents Painters, circle represents Vegetarians and rectangle represents Men. Which set of letters represents painters who are either men or vegetarians?



- A D,F
- B E,B
- C H,G,F
- D A,C,E

Answer: B

Explanation:

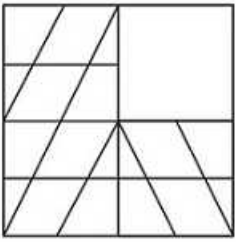


No painter is a man, thus painters who are either men or vegetarians are represented by blue region = E + B

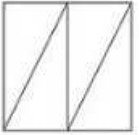
=> Ans - (B)

Question 46

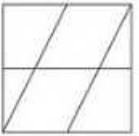
Which answer figure will complete the pattern in the question figure



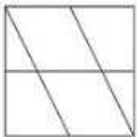
A



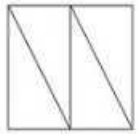
B



C



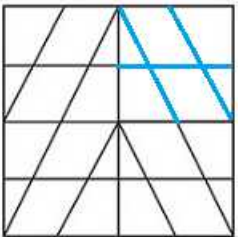
D



Answer: C

Explanation:

When we complete the question figure, we get :

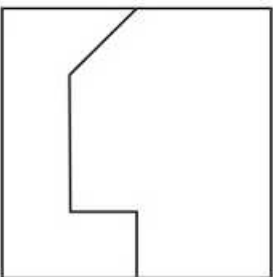


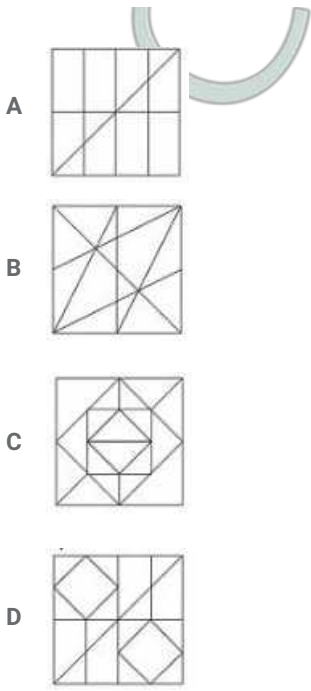
The third figure matches the above figure in blue colour.

=> Ans - (C)

Question 47

From the given answer select in one in which the question figure is hidden / embedded





Answer: C

Explanation:

The question figure is embedded in the following figure in red colour :

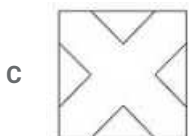
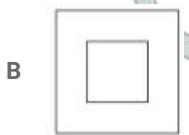
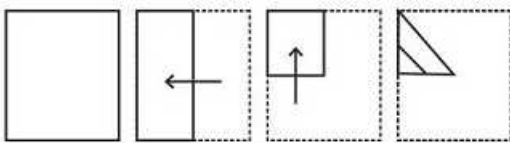


=> Ans - (C)

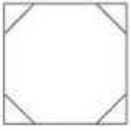
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Question 48

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.



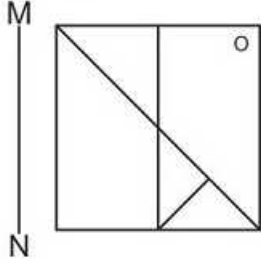
D



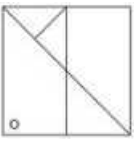
Answer: C

Question 49

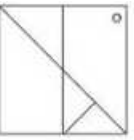
If a mirror is placed on the line MN, then which of the answer figures is the right image of the given figure?



A



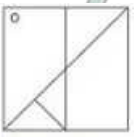
B



C



D



Answer: D

Explanation:

A vertical mirror is placed, so the objects on the left will appear at right and vice-versa. Now, the left diagonal in the question figure will become a right diagonal in the mirror image, so first two options are eliminated.

Also, the little circle on the top right corner will appear at the top left corner in the mirror and thus third option is also not possible.

=> Ans - (D)

Question 50

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 'K' can be represented by 42, 34 etc and 'Z' can be represented by 96, 79 etc. Similarly, you have to identify the set for the word 'ROAD'.

Matrix - I

	0	1	2	3	4
0	L	K	A	F	H
1	K	I	I	C	D
2	J	E	E	E	F
3	M	I	A	E	K
4	M	B	K	C	G

Matrix - II

	5	6	7	8	9
5	Q	S	R	U	Z
6	S	R	O	V	T
7	O	U	V	S	Z
8	V	Y	T	Y	S
9	Y	Z	O	U	V

- A 24,14,67,76
- B 30,22,86,56
- C 66,67,02,14
- D 13,43,56,86

Answer: C

Explanation:

- (A) : 24,14,67,76 = FDOU
 - (B) : 30,22,86,56 = MEYS
 - (C) : 66,67,02,14 = **ROAD**
 - (D) : 13,43,56,86 = CCSY
- => Ans - (C)

SSC CGL Free Mock Test

General Awareness

Instructions

For the following questions answer them individually

Question 51

Which exchange rate is the relative price of foreign goods in terms of domestic goods.

- A Artificial exchange rate
- B Nominal exchange rate
- C Fixed exchange rate
- D Real exchange rate

Answer: D

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Question 52

_____ is an alternative way of representing the production function.

- A The Short Run
- B The Long Run
- C Isoquant
- D Average product

Answer: C

Question 53

"United Nations Organization" is listed in the _____ list given in the Seventh Schedule in the Constitution of India.

- A Union
- B State
- C Global
- D Concurrent

Answer: A

Question 54

There are total _____ parliamentary seats (Rajya Sabha constituency) in Punjab.

- A 7
- B 1
- C 18
- D 10

Answer: A

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Question 55

Big landlords or warrior chiefs in the seventh century were acknowledged as _____ by the existing kings?

- A Rashtrakutas
- B Chalukya
- C Samantas
- D Brahmanas

Answer: C

Question 56

The Agra fort was built by _____.

- A Shah Jahan
- B Akbar

C Jahangir

D Babur

Answer: B

Question 57

How many biosphere reserves does India have ?

A 26

B 27

C 28

D 18

Answer: D

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Question 58

The northern plain of India has been formed by the interplay of the three major river systems, namely- the Indus, the Ganga and the _____.

A Brahmaputra

B Krishna

C Kaveri

D Mahanadi

Answer: A

Question 59

In the names *Mangifera indica* (mango), *Solanum tuberosum* (potato) and *Panthera leo* (lion), what does the three names, *indica*, *tuberosum* and *leo*, represent?

A Binomial Nomenclature

B Taxonomic Hierarchy

C Identification

D Specific Epithet

Answer: D

Question 60

_____ are chlorophyll-bearing, simple, thalloid, autotrophic and largely aquatic (both fresh water and marine) organisms.

A Pteridophytes

B Bryophytes

C Algae

D Gymnosperms

Answer: C

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Question 61

Animals like annelids and arthropods etc where the body can be divided into identical left and right halves in only one plane, exhibit which kind of symmetry?

A Coelenterata

B Radial

C Ctenophora

D Bilateral

Answer: D

Question 62

If the orbit of a planet is an ellipse then what is the point at which the Sun is located called?

A Centre

B Circumcentre

C Incentre

D Focus

Answer: D

Question 63

The sliding friction is _____ than the static friction.

A double

B same

C greater

D smaller

Answer: D

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Question 64

_____ optical data storage is a technology where data is stored in multiple layers in the optical disc.

A 3D

B 30D

C 300D

D 3000D

Answer: A

Question 65

Kelvin (K) is the unit of measurement of _____.

A Density

B Pressure

C Mass

D Temperature

Answer: D

Question 66

What is the process of rust forming on iron called?

A Rusting

B Crystallisation

C Shovel

D Spade

Answer: A

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Question 67

_____ acts as a shield absorbing ultraviolet radiation from the sun.

A Chlorofluorocarbons

B Stratosphere

C Ozone hole

D Greenhouse

Answer: B

Question 68

_____ scheme launched by the Central Government aims to spur social, economic and infrastructure development in rural areas by developing a cluster of 300 Smart Villages.

A Soil Health Card

B Shyama Prasad Mukherji Rurban Mission

C Pradhan Mantri Fasal Bima Yojana

D Pradhanmantri rojgar yojna

Answer: B

Question 69

Who invented the electrocardiogram (ECG)?

- A Willem Einthoven
- B Edward Jenner
- C Antonio de Ulloa and Charles Wood
- D Karl Benz

Answer: A

General Science Notes for SSC CGL

Question 70

Who is the winner of 2017 Formula One Chinese Grand Prix?

- A Sebastian Vettel
- B Lewis Hamilton
- C Valtteri Bottas
- D Kimi Raikkonen

Answer: B

Question 71

In which city of India is Charminar located?

- A Pune
- B Delhi
- C Aurangabad
- D Hyderabad

Answer: D

Question 72

Which of the following was the winner of the Grammy Awards 2016 "Record of the Year"?

- A Uptown Funk
- B Really Love
- C Thinking Out Loud
- D Blank Space

Answer: A

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Question 73

1. The author of the novel 'Darkness at Noon' is Victor LaValle.
2. The author of the novel 'The Great Gatsby' is F. Scott Fitzgerald.
3. The author of the novel 'The Sound and the Fury' is L. Ron Hubbard.

Which of the statements given above are not correct?

- A 1 and 2
- B 2 and 3
- C 1 and 3
- D 1, 2 and 3

Answer: C

Question 74

What was Norway's rank in 2016 Human Development Index published by the United Nations Development Programme?

- A 1
- B 10
- C 100
- D 200

Answer: A

Question 75

Which country is not a member of Bay of Bengal Initiative for Multi-Sectoral Technical and Economic Cooperation (BIMSTEC)?

- A Thailand
- B Myanmar
- C India
- D Pakistan

Answer: D

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Mathematics

Instructions

For the following questions answer them individually

Question 76

What is the value of 9991×10009 ?

- A 9999099
- B 9999819
- C 9999919

D 99999019

Answer: C

Explanation:

Expression : 9991×10009

$$= (10000 - 9)(10000 + 9)$$

$$= (10000)^2 - (9)^2$$

$$= 100000000 - 81 = 99999919$$

=> Ans - (C)

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Question 77

A can do 1/3rd of a job in 3 days and B can do half of the job in 9 days. If they work on it together, then in how many days can they finish half of the job?

A 4

B 5

C 6

D 3

Answer: D

Explanation:

Let total work to be done = 18 units

A can do 1/3rd of the job in 3 days

$$\Rightarrow \text{A's efficiency} = \frac{1}{3} \times \frac{18}{3} = 2 \text{ units/day}$$

$$\text{Similarly, B's efficiency} = \frac{1}{2} \times \frac{18}{9} = 1 \text{ unit/day}$$

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

$$\therefore \text{Time taken by them to finish half of the job} = \frac{1}{2} \times \frac{18}{3} = 3 \text{ days}$$

=> Ans - (D)

Question 78

What is the area (in sq cm) of a rhombus if the lengths of its diagonals are 25 cm and 20 cm?

A 500

B 250

C 125

D 200

Answer: B

Explanation:

Diagonals of rhombus = $d_1 = 25$ cm and $d_2 = 20$ cm

$$\text{Area of rhombus} = \frac{1}{2} \times d_1 \times d_2$$

$$= \frac{1}{2} \times 25 \times 20 = 250 \text{ cm}^2$$

=> Ans - (B)

Question 79

If a shopkeeper sells an item at Rs 4200 which is marked as Rs 4800, then what is the discount (in %) that he is offering?

- A 12.5
- B 14.28
- C 10
- D 15

Answer: A

Explanation:

Marked price = Rs. 4800

Selling price = Rs. 4200

$$\Rightarrow \text{Discount \%} = \frac{(4800-4200)}{4800} \times 100$$

$$= \frac{600}{48} = 12.5\%$$

=> Ans - (A)

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Question 80

The flight fare between two cities is increased in the ratio 11:13. What is the increase (in Rs) in the fare, if the original fare was Rs 12100?

- A 14300
- B 2200
- C 22000
- D 1430

Answer: B

Explanation:

Let original fare = Rs. $11x$

=> New fare = Rs. $13x$

Also, original fare = 12100 = $11x$

$$\Rightarrow x = \frac{12100}{11} = 1100$$

\therefore Increase in fare = $13x - 11x = 2x$

$$= 2 \times 1100 = \text{Rs.}2200$$

=> Ans - (B)

Question 81

3 numbers whose average is 112, the first number is 1/6th the sum of other 2. What is the first number?

- A 45
- B 30

C 15

D 48

Answer: D

Explanation:

Let the three numbers be x, y, z

$$\text{Sum of three numbers} = x + y + z = 112 \times 3 = 336$$

$$\text{According to ques, } \Rightarrow x = \frac{1}{6} \times (y + z)$$

$$\Rightarrow x = \frac{1}{6} \times (336 - x)$$

$$\Rightarrow 6x = 336 - x$$

$$\Rightarrow 6x + x = 7x = 336$$

$$\Rightarrow x = \frac{336}{7} = 48$$

\Rightarrow Ans - (D)

Question 82

A trader buys 800 kgs of tomatoes for Rs 7200. 10% tomatoes are damaged in transportaion. At what rate (Rs/Kg) should he sell the rest to earn 30% profit?

A 9

B 13

C 10

D 12

Answer: B

Explanation:

Cost price of 800 kgs of tomatoes = Rs. 7200

$$\text{Tomatoes left} = \frac{(100-10)}{100} \times 800 = 720 \text{ kg}$$

$$\text{Thus, cost price of 1 kg tomato} = \frac{7200}{720} = \text{Rs. } 10$$

Profit % = 30%

$$\Rightarrow \text{Selling price of 1 kg tomato} = \frac{130}{100} \times 10 = \text{Rs. } 13$$

\Rightarrow Ans - (B)

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Question 83

A student has to secure 35% marks to pass in a subject. If he gets 82 and fails by 23 marks. What is the maximum marks of the subject?

A 300

B 250

C 350

D 400

Answer: A

Explanation:

Let maximum marks = $100x$

$$\Rightarrow \text{Passing marks} = \frac{35}{100} \times 100x = 35x$$

According to ques,

$$\Rightarrow 35x - 23 = 82$$

$$\Rightarrow 35x = 82 + 23 = 105$$

$$\Rightarrow x = \frac{105}{35} = 3$$

\therefore Maximum marks = $100 \times 3 = 300$

\Rightarrow Ans - (A)

Question 84

A spaceship travels at 810 km/hr. How many metres does it travel in $\frac{1}{5}$ th of a second?

A 60

B 45

C 75

D 90

Answer: B

Explanation:

Speed of spaceship = 810 km/hr

$$\Rightarrow \text{Speed in m/s} = 810 \times \frac{5}{18}$$

$$= 5 \times 45 = 225 \text{ m/s}$$

Thus, in 1 second, it travels 225 metres

$$\therefore \text{In } \frac{1}{5} \text{th of a second, it travels} = \frac{225}{5} = 45 \text{ m}$$

\Rightarrow Ans - (B)

Question 85

If the amount received at the end of 2nd and 3rd year as Compound Interest on a certain Principal is Rs 2100, and Rs 2268 respectively, what is the rate (in %) of interest?

A 7

B 8

C 9

D 10

Answer: B

Explanation:

Compound interest at the end of 2nd year = Rs. 2100

Compound interest at the end of 3rd year = Rs. 2268

$$\Rightarrow \text{Difference} = 2268 - 2100 = \text{Rs. } 168$$

This is the interest obtained on the amount of 2nd year.

$$\therefore \text{Rate of interest, } r = \frac{168}{2100} \times 100 = 8\%$$

=> Ans - (B)

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Question 86

If $5x - \frac{1}{2}(2x - 7) = 5.5$, then what is the value of x ?

- A $\frac{3}{2}$
- B $\frac{1}{2}$
- C $-\frac{1}{2}$
- D $-\frac{3}{2}$

Answer: B

Explanation:

Expression : $5x - \left[\frac{1}{2}(2x - 7)\right] = 5.5$

$$= 5x - \left(\frac{2x-7}{2}\right) = 5.5$$

$$= \frac{10x-2x+7}{2} = 5.5$$

$$= 8x + 7 = 5.5 \times 2 = 11$$

$$= 8x = 11 - 7 = 4$$

$$= x = \frac{4}{8} = \frac{1}{2}$$

=> Ans - (B)

Question 87

If $a + b = 4$ and $ab = -5$, then what is the value of $a^3 + b^3$?

- A 34
- B 36
- C 124
- D 126

Answer: C

Explanation:

Given : $ab = -5$ -----(i)

Also, $a + b = 4$ -----(ii)

Cubing both sides, we get :

$$\Rightarrow (a + b)^3 = (4)^3$$

$$\Rightarrow a^3 + b^3 + 3ab(a + b) = 64$$

Substituting values from equation (i) and (ii)

$$\Rightarrow a^3 + b^3 + 3(-5)(4) = 64$$

$$\Rightarrow a^3 + b^3 = 64 + 60 = 124$$

=> Ans - (C)

Question 88

The sum of a number and 4 times its reciprocal is 5. What is the number?

- A 4
- B 5
- C 6
- D 7

Answer: A

Explanation:

Let the fraction be x

According to ques,

$$\Rightarrow x + \frac{4}{x} = 5$$

$$\Rightarrow \frac{x^2+4}{x} = 5$$

$$\Rightarrow x^2 + 4 = 5x$$

$$\Rightarrow x^2 - 5x + 4 = 0$$

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

$$\Rightarrow x(x - 1) - 4(x - 1) = 0$$

$$\Rightarrow (x - 1)(x - 4) = 0$$

$$\Rightarrow x = 1, 4$$

$$\Rightarrow \text{Ans - (A)}$$

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Question 89

The 3rd and 8th term of an arithmetic progression are -13 and 2 respectively. What is the 14th term?

- A 23
- B 17
- C 20
- D 26

Answer: C

Explanation:

Let the first term of an AP = a and the common difference = d

$$3\text{th term of AP} = A_3 = a + 2d = -13 \text{ -----(i)}$$

$$8\text{th term} = A_8 = a + 7d = 2 \text{ -----(ii)}$$

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

$$\Rightarrow 7d - 2d = 2 - (-13)$$

$$\Rightarrow 5d = 15$$

$$\Rightarrow d = \frac{15}{5} = 3$$

Substituting it in equation (ii), $\Rightarrow a = 2 - 7(3) = 2 - 21 = -19$

\therefore 14th term = $A_{14} = a + 13d$

$= -19 + 13(3) = -19 + 39 = 20$

\Rightarrow Ans - (C)

Question 90

What is the reflection of the point (4, -3) in the line $y = 1$?

A (4, -5)

B (4, 5)

C (-4, -5)

D (-4, 5)

Answer: B

Explanation:

Reflection of point (x,y) in line $y=a$ is $(x, y+2a)$

Now, Reflection of point (4,-3) in line $y=1$

$= [4, 3+2(1)] = (4, 5)$

\Rightarrow Ans - (B)

Question 91

In what ratio does the point T(x, 0) divide the segment joining the points S(5, 1) and U(-1, -2)?

A 2 : 1

B 1 : 2

C 3 : 1

D 2 : 3

Answer: B

Explanation:

Using section formula, the coordinates of point that divides line joining A = (x_1, y_1) and B = (x_2, y_2) in the ratio $a : b$

$$= \left(\frac{ax_2 + bx_1}{a+b}, \frac{ay_2 + by_1}{a+b} \right)$$

Let the ratio in which the segment joining (5,1) and (-1,-2) divided by the x-axis = $k : 1$

Now, point P (x,0) divides (5,1) and (-1,-2) in ratio = $k : 1$

$$\Rightarrow 0 = \frac{(-2 \times k) + (1 \times 1)}{k+1}$$

$$\Rightarrow -2k + 1 = 0$$

$$\Rightarrow k = \frac{-1}{-2} = \frac{1}{2}$$

\therefore Required ratio = 1 : 2

\Rightarrow Ans - (B)

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Question 92

At what point does the line $3x + 2y = 12$ cuts the Y-axis?

- A (0, 6)
- B (0, -6)
- C (6, 0)
- D (-6, 0)

Answer: A

Explanation:

Let the line $3x + 2y = 12$ cuts the Y-axis at point A(0,y)

Substituting coordinates of A in the equation :

$$\Rightarrow 3(0) + 2y = 12$$

$$\Rightarrow y = \frac{12}{2} = 6$$

\therefore The line $3x + 2y = 12$ cuts the Y-axis at (0,6)

\Rightarrow Ans - (A)

Question 93

The areas of two similar triangles ΔABC and ΔPQR are 121 sq cms and 64 sq cms respectively. If PQ = 12 cm, what is the length (in cm) of AB?

- A 7.25
- B 6.25
- C 16.5
- D 5.25

Answer: C

Explanation:

It is given that $\Delta ABC \sim \Delta PQR$

Let length of AB = x cm and length of the corresponding side PQ = 12 cm

\Rightarrow Ratio of Area of ΔABC : Area of ΔPQR = Ratio of square of corresponding sides = $(AB)^2 : (PQ)^2$

$$\Rightarrow \left(\frac{x}{12}\right)^2 = \frac{121}{64}$$

$$\Rightarrow \frac{x}{12} = \sqrt{\frac{121}{64}} = \frac{11}{8}$$

$$\Rightarrow x = \frac{11}{8} \times 12 = 16.5 \text{ cm}$$

\Rightarrow Ans - (C)

Question 94

What is the value of $\tan 60^\circ + \operatorname{cosec} 60^\circ$?

- A $\frac{5}{3}$
- B $\frac{2}{\sqrt{3}}$
- C $\frac{5}{\sqrt{3}}$

D $2/3$

Answer: C

Explanation:

Expression : $\tan 60^\circ + \operatorname{cosec} 60^\circ$

$$= (\sqrt{3}) + \left(\frac{2}{\sqrt{3}}\right)$$

$$= \frac{3+2}{\sqrt{3}} = \frac{5}{\sqrt{3}}$$

=> Ans - (C)

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Question 95

ΔXYZ is right angled at Y. If $m\angle Z = 60^\circ$, then what is the value of $(1/\sqrt{2}) \operatorname{Sec} X$?

A $2/\sqrt{3}$

B $1/\sqrt{6}$

C $1/\sqrt{3}$

D $2/\sqrt{6}$

Answer: D

Explanation:

Given : $m\angle Z = 60^\circ$ and $m\angle Y = 90^\circ$

=> In ΔXYZ ,

$$\Rightarrow \angle X + \angle Y + \angle Z = 180^\circ$$

$$\Rightarrow \angle X + 60^\circ + 90^\circ = 180^\circ$$

$$\Rightarrow \angle X = 180^\circ - 150^\circ = 30^\circ$$

To find : $(1/\sqrt{2}) \operatorname{Sec} X$

$$= \operatorname{sec}(30^\circ) \times \frac{1}{\sqrt{2}}$$

$$= \frac{2}{\sqrt{3}} \times \frac{1}{\sqrt{2}} = \frac{2}{\sqrt{6}}$$

=> Ans - (D)

Question 96

If $\operatorname{Cosec} \theta = 17/8$, then what is the value of $\operatorname{Cos} \theta$?

A $15/8$

B $15/17$

C $8/15$

D $17/15$

Answer: B

Explanation:

$$\text{Given : } \operatorname{cosec} \theta = \frac{17}{8}$$

$$\Rightarrow \sin \theta = \frac{8}{17}$$

Using, $\sin^2\theta + \cos^2\theta = 1$

$$\Rightarrow \cos^2\theta = 1 - \left(\frac{8}{17}\right)^2$$

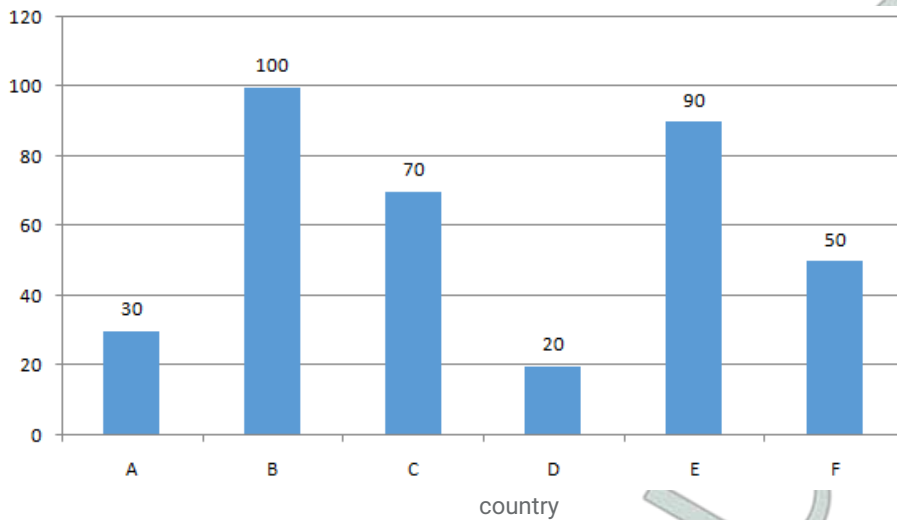
$$\Rightarrow \cos^2\theta = 1 - \frac{64}{289} = \frac{225}{289}$$

$$\Rightarrow \cos\theta = \sqrt{\frac{225}{289}} = \frac{15}{17}$$

\Rightarrow Ans - (B)

Instructions

The bar graph shows GDP for the year 2016 in billion USD of six countries (A, B, C, D, E, F) of a regional trade block. Study the diagram and answer the following questions.



Question 97

Which country is the third biggest in terms of Gross Domestic Product (GDP)?

- A A
- B C
- C E
- D F

Answer: B

Explanation:

Countries B and E are respectively the highest and second highest in terms of Gross Domestic Product (GDP).

Thus, **country C** with 70 billion USD is the third highest in terms of Gross Domestic Product (GDP).

\Rightarrow Ans - (B)

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Question 98

By what amount (in billion USD) is the Gross Domestic Product (GDP) of Country A lesser than that of Country F?

- A 20
- B 50
- C 25

D 40

Answer: A

Explanation:

Gross Domestic Product (GDP) of Country A (in billion USD) = 30

Gross Domestic Product (GDP) of Country F (in billion USD) = 50

=> Difference = 50 - 30 = 20 billion USD.

=> Therefore, option A is the correct answer.

Question 99

What is the ratio of Gross Domestic Product (GDP) of Country E to Total of GDPs of countries A, C and F taken together?

A 3 : 5

B 5 : 3

C 9 : 5

D 5 : 9

Answer: A

Explanation:

Gross Domestic Product (GDP) of Country E (in billions USD) = 90

Total gross Domestic Product (GDP) of Countries A, C and F (in billions USD) = 30 + 70 + 50 = 150

=> Required ratio = $\frac{90}{150} = \frac{3}{5}$

∴ Ratio of Gross Domestic Product (GDP) of Country E to Total of GDPs of countries A, C and F taken together = 3 : 5

=> Ans - (A)

Question 100

If the combined GDP of the six countries has grown by 50% in the last decade, then what was their combined annual Gross Domestic Product (in billion USD) before 10 years?

A 540

B 180

C 240

D 200

Answer: C

Explanation:

Let the combined annual Gross Domestic Product (in billion USD) before 10 years = $100x$

It is grown by 50%, => Combined GDP in 2016 (in billion USD) = $\frac{150}{100} \times 100x = 150x$

Combined GDP of the six countries (in billion USD) in 2016 :

= 30 + 100 + 70 + 20 + 90 + 50 = 360

According to ques,

=> $150x = 360$

=> $x = \frac{36}{15} = 2.4$

∴ The combined annual Gross Domestic Product (in billion USD) before 10 years = $100 \times 2.4 = 240$

=> Ans - (C)

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