



2017 SSC CGL 19 Aug Shift-1

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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'.

Several great battles (a:/ took place among (b:/ the British and the Americans. (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'.

The stream gurgled (a:/ contentedly as it (b:/ slowed to rounding the bend. (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.

The criminal changed his name to an _____ in order to elude the police.

A alternative

B alias

C option

D untrue

Answer: B

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.

The _____ my husband and I had was so loud it woke our children.

- A quarrel
- B coral
- C moral
- D laurel

Answer: A

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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.

Litter

- A Trash
- B Order
- C Possess
- D System

Answer: A

Question 6

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

Obliterate

- A Construct
- B Annihilate
- C Revive
- D Initiate

Answer: B

Question 7

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

Scrimp

- A Skimp
- B Conserve
- C Squander
- D Curtail

Answer: C

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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.

Guzzle

- A Carouse
- B Starve
- C Imbibe
- D Quaff

Answer: B

Question 9

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

To heave a sigh of relief

- A To become very tired with routine or boring work
- B To suddenly feel very happy because something unpleasant has not happened or has ended
- C To feel extremely sad over someone else's misfortune
- D To feel silent anger over real or perceived injustice

Answer: B

Question 10

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

To be on cloud nine

- A To be extremely happy
- B To feel lucky
- C To experience the feeling of being intoxicated
- D To make one last attempt

Answer: A

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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".

She was uneasy because she (never be) on a plane before.

- A had never been
- B never been
- C is never been
- 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".

No one knows how he escaped (dash) to pieces.

- A being dash
- B being dashed
- C dashed
- D no improvement

Answer: B

Question 13

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

The upward force that a fluid exerts on a body floating in it

- A Upthrust
- B Plunge
- C Submerge
- D Capsize

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.

The use of irony to mock or convey contempt

- A Sanction
- B Flatter
- C Compliment
- D Sarcasm

Answer: D

Question 15

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

- A Threshing
- B Thrasheing
- C Threasheing

D Thrashing

Answer: D

Question 16

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

A Conssensus

B Consensus

C Consensus

D Conssenssus

Answer: C

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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.

As for ourselves, we

X-combing our hair

Y-a good wash and

Z-were contented with

A ZXY

B YZX

C YXZ

D ZYX

Answer: D

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.

If there is a

X-corresponding sensation

Y-kind, there has to be a

Z-change in brain activity of a certain

A ZXY

B ZYX

C YZX

D YXZ

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 fire destroyed the whole neighbourhood.

- A The whole neighbourhood is destroyed by the fire.
- B The whole neighbourhood was destroyed by the fire.
- C The whole neighbourhood was being destroyed by the fire.
- D The whole neighbourhood is being destroyed by the fire.

Answer: B

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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.

The accused said to the judge, "Let me meet my children before I die, sir."

- A The accused requests the judge to let him meet his children before he died.
- B The accused requested the judge to let him meet his children before he died.
- C The accused begs the judge to allow him to meet his children before he dies.
- D The accused begged the judge to let him meet his children before he dies.

Answer: B

Instructions

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

"Jim Crow" shuns the mountains for reasons satisfactory to himself; not so the magpie, the raven, and ____ (1) ____ mischief-maker, Clark's nutcracker. All of which keeps the bird-lover from the East in an ecstasy of surprises until he has ____ (2) ____ accustomed to his changed environment. One cannot help ____ (3) ____ into the speculative mood in view of the sharp contrasts ____ (4) ____ the birds of the East and ____ (5) ____ of the West.

Question 21

(1)

- A what
- B it
- C that
- D there

Answer: C

Question 22

(2)

- A became
- B becomes
- C to be
- D become

Answer: D

Question 23

(3)

- A to fall
- B fallen
- C falling
- D fell

Answer: C

Question 24

(4)

- A beside
- B beneath
- C between
- D below

Answer: C

Question 25

(5)

- A whose
- B this
- C those
- D whom

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.

Product : Multiplication :: Sum : ?

- A Comparison
- B Percentage
- C Numbers
- D Addition

Answer: D

Explanation:

Product and multiplication are synonyms, similarly sum and addition have same meaning.

=> Ans - (D)

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Question 27

Select the related letters from the given alternatives.

FHK : DFI :: OQT : ?

- A NPS
- B PRT
- C MOR
- D QSV

Answer: C

Explanation:

Expression = FHK : DFI

The pattern followed is :

F	H	K
(-2)	(-2)	(-2)
D	F	I

Similarly, for OQT :

O	Q	T
(-2)	(-2)	(-2)
M	O	R

=> Ans - (C)

Question 28

Select the related number from the given alternatives.

10001 : 10101 :: 101 : ?

- A 11
- B 201

C 100

D 121

Answer: B

Explanation:

Expression = $10001 : 10101 :: 101 : ?$

The pattern followed is = $n : n + 100$

Eg = $10001 : 10001 + 100 = 10001 : 10101$

Similarly, $101 + 100 = 201$

=> Ans - (B)

Question 29

Select the odd word from the given alternatives.

A Trousers

B Shirt

C Pants

D Shorts

Answer: B

Explanation:

Shorts, pants and trousers are worn below the waist, hence shirt is the odd one out.

=> Ans - (B)

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Question 30

Select the odd letters from the given alternatives.

A EHK

B ZBD

C LOR

D SVY

Answer: B

Explanation:

(A) : E (+3 letters) = H (+3 letters) = K

(B) : Z (+2 letters) = B (+2 letters) = D

(C) : L (+3 letters) = O (+3 letters) = R

(D) : S (+3 letters) = V (+3 letters) = Y

=> Ans - (B)

Question 31

Select the odd number from the given alternatives.

A 10

B 20

C 15

D 30

Answer: C

Explanation:

All the numbers except 15 are divisible by 10, hence it is the odd one.

=> 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.

win, note, grain, broker, ?

A refund

B pony

C banking

D mutually

Answer: C

Explanation:

Expression : win, note, grain, broker, ?

The pattern is that in each word, number of letters are increasing = 3,4,5,6

Now, the next word must contain 7 letters. Among the options, the word with seven letters is **Banking**.

=> Ans - (C)

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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.

KIMnO, qRsTu, WxYZA, cDeFg, ?

A iJkLm

B HiJkL

C IjKIM

D hIjKl

Answer: C

Explanation:

Expression : KIMnO, qRsTu, WxYZA, cDeFg, ?

The pattern followed is that in groups of 5, English alphabetical series is written. Also, 1 letter is missing after each term. And alternate letters are in capital and small.

Thus, after 'g', next omitted letter = 'h'

Also, the first letter and then every alternate letter should be in capital.

Thus, missing term = **IjKIM**

=> Ans - (C)

Question 34

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

0, 3, 8, ?, 24, 35

- A 15
- B 16
- C 18
- D 9

Answer: A

Explanation:

The above numbers are of the form $n^2 - 1$

$$1^2 - 1 = 0$$

$$2^2 - 1 = 3$$

$$3^2 - 1 = 8$$

$$4^2 - 1 = 15$$

$$5^2 - 1 = 24$$

$$6^2 - 1 = 35$$

=> Ans - (A)

Question 35

Faiyaz's birthday is on Wednesday 12th April. On what day of the week will be Shray's Birthday in the same year if Shray was born on 2nd October?

- A Monday
- B Saturday
- C Wednesday
- D Sunday

Answer: A

Explanation:

According to the question, 12th April is Wednesday

$$\text{Number of days left in April} = 30 - 12 = 18$$

$$\text{Similarly, odd days from 12th April till 2nd October} = (18 + 31 + 30 + 31 + 31 + 30 + 2) \% 7$$

$$= 4 + 3 + 2 + 3 + 3 + 2 + 2 = 19$$

Now, dividing 19 by 7, remainder = 0

Thus, day on 2nd October = Wednesday (+5) = Monday

=> Ans - (A)

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Question 36

The weights of 4 boxes are 20, 90, 40 and 60 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 210
- B 170
- C 190
- D 200

Answer: D

Explanation:

Weights of 4 boxes = 20, 90, 40 and 60 kilograms

(A) : $210 = 20 + 40 + 60 + 90$

(B) : $170 = 20 + 60 + 90$

(C) : $190 = 40 + 60 + 90$

(D) : 200 = not possible

=> Ans - (D)

Question 37

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

SMOTHERS

- A THOSE
- B METRO
- C STORE
- D TEARS

Answer: D

Explanation:

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

=> Ans - (D)

Question 38

If FRISKED is coded as HTKUMGF, then how will SUN be coded as?

- A UWP
- B RGZ
- C KMJ
- D ZBF

Answer: A

Explanation:

FRISKED is coded as HTKUMGF

The pattern followed is :

F	R	I	S	K	E	D
(+2)	(+2)	(+2)	(+2)	(+2)	(+2)	(+2)
H	T	K	U	M	G	F

Similarly, for SUN :

S	U	N
(+2)	(+2)	(+2)
U	W	P

=> Ans - (A)

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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?

$$80 + 2 \div 25 + 5 - 10 = ?$$

- A 35
- B 98
- C 36
- D 45

Answer: D

Explanation:

$$\text{Expression} = 80 + 2 \div 25 + 5 - 10 = ?$$

$$\equiv 80 \times 2 - 25 \times 5 + 10$$

$$= 160 - 125 + 10 = 45$$

=> Ans - (D)

Question 40

If $45 \% 11 = 7$, $59 \% 34 = 7$ then what is the value of $55 \% 4 = ?$

- A 6
- B 40
- C 45
- D 50

Answer: A

Explanation:

The pattern followed is that the sum of digits of second number is subtracted from the sum of digits of first number.

$$\text{Eg : } 45 \% 11 = (4 + 5) - (1 + 1) = 9 - 2 = 7$$

$$\text{and } 59 \% 34 = (5 + 9) - (3 + 4) = 14 - 7 = 7$$

$$\text{Similarly, } 55 \% 4 = (5 + 5) - (4) = 10 - 4 = 6$$

=> Ans - (A)

Question 41

Select the missing number from the given responses ?

102	89	?
87	45	25
15	44	50

- A 13
- B 25
- C 75
- D 15

Answer: C

Explanation:

In the first column, the first number is obtained by adding the other two numbers.

Eg : $87 + 15 = 102$

and $45 + 44 = 89$

Similarly, $50 + 25 = 75$

=> Ans - (C)

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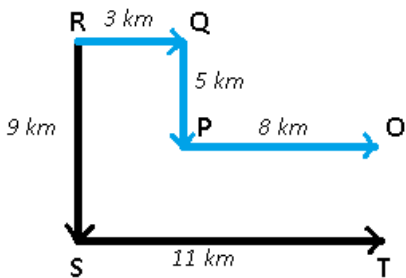
Question 42

Two cars C and D start from the same point. C travels 9 km South, then turns to its left and travels another 11 km. D travels 3 km East, then turns South and travels 5 km, then turns to its left and travels another 8 km. Where is D with respect to C now?

- A 4 km South
- B 14 km North
- C 4 km North
- D 14 km South

Answer: C

Explanation:



Let both C and D start from point R. C's path is shown by black and D's by blue.

C travels 9 km south and reaches S, then takes left turn and reaches point T by travelling 11 km.

Similarly, D travels east for 3 km and reaches Q, then turns south for 5 km and finally stops at point O.

Thus, $OT = 9 - 5 = 4$ km

∴ D is 4 km to the north of C.

=> Ans - (C)

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 street lights be switched off after midnight?

Argument I : No, statistics show that crime and accidents increase if street lights are switched off.

Argument II : Yes, few vehicles ply after midnight, expensive electricity will be wasted.

- 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: C

Explanation:

The first argument states that if lights are switched off after midnight, then it can result in increased crime and accidents, thus it is a strong argument as it has a direct impact on the given statement.

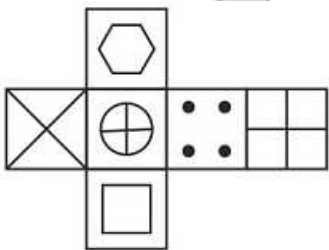
Similarly, other argument is also strong as it states that electricity will be saved if street lights are switched off.

Thus, both I and II are strong.

=> Ans - (C)

Question 44

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



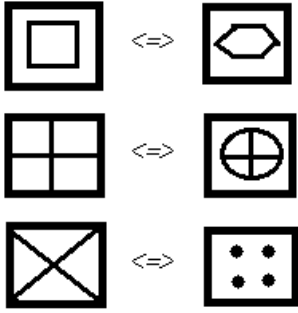
- A
- B
- C
- D

Answer: D

Explanation:

When we fold the given figure, the circle with a '+' sign will become the base of the cube and the side with only '+' sign will become top,

and thus they will face each other. Similarly, the sides which will face each other will be :



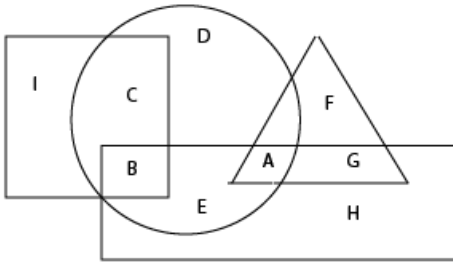
Since, the opposite sides cannot be adjacent in the cube, thus the cube in the last option is not possible.

=> Ans - (D)

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Question 45

In the following figure, square represents Painters, triangle represents women, circle represents Accountants and rectangle represents Americans. Which set of letters represents Americans who are not accountants?



A D,C,H

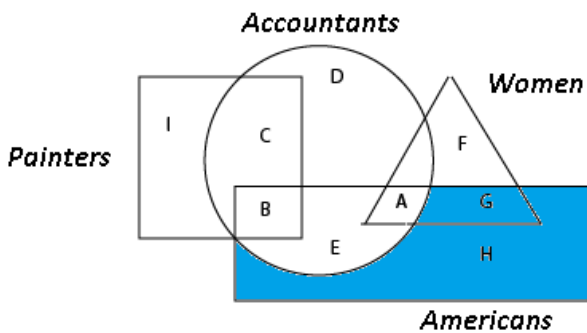
B G,H

C G,B,E

D D,A

Answer: B

Explanation:

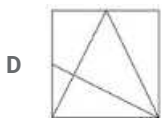
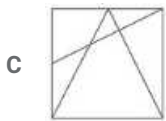
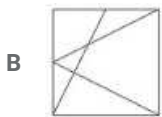
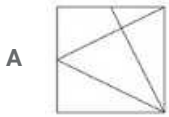
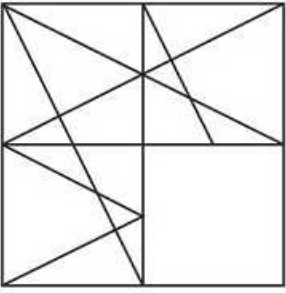


Americans who are not accountants are represented by blue colour = G + H

=> Ans - (B)

Question 46

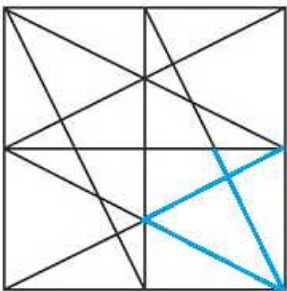
Which answer figure will complete the pattern in the question figure



Answer: A

Explanation:

When we complete the above figure, we get :

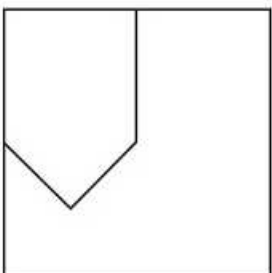


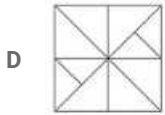
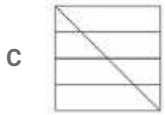
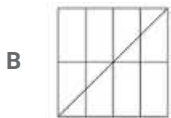
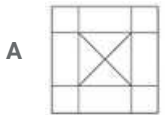
Now, the first figure resembles the above missing part in blue colour.

=> Ans - (A)

Question 47

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





Answer: D

Explanation:

The question figure is embedded in the following figure :

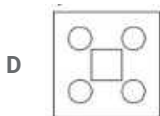
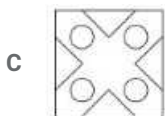
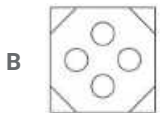
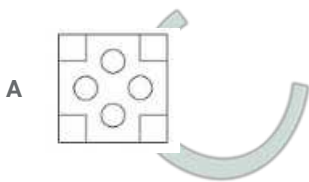
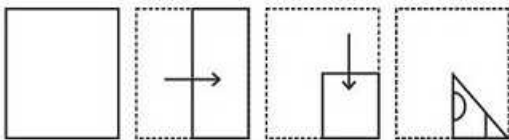


=> Ans - (D)

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Question 48

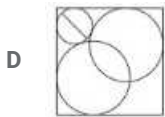
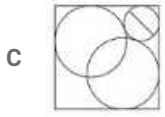
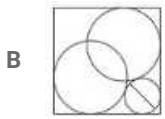
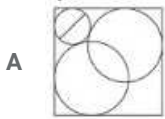
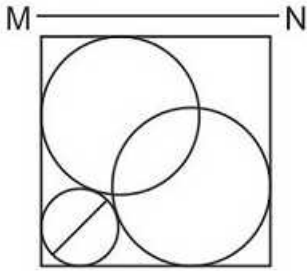
A piece of paper is folded and punched as shown below in the question figures, indicate how it will appear when opened.



Answer: A

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?



Answer: D

Explanation:

A horizontal mirror is placed, so the objects will turn upside down in the mirror image (eg - an object at top right will appear at bottom right). So, the two circular rings at the left diagonal will appear at the right diagonal, and thus the third option is eliminated.

Also, the smaller circle at bottom left will appear at top left and the line inside will be reversed, so the first two options are 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 76, 59 etc. Similarly, you have to identify the set for the word 'SELF'.

Matrix - I

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

Matrix - II

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

A 95,23,24,41

B 44,43,87,95

C 04,31,85,58

D 24,04,66,77

Answer: A

Explanation:

(A) : 95,23,24,41 = SELF

(B) : 44,43,87,95 = DCTS

(C) : 04,31,85,58 = CHON

(D) : 24,04,66,77 = LCQU

=> Ans - (A)

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General Awareness

Instructions

For the following questions answer them individually

Question 51

The collection of all possible combinations of the goods and services that can be produced from a given amount of resources and a given stock of technological knowledge is called the _____ of the economy.

- A Resource Probability Set
- B Production Probability Set
- C Resource Possibility Set
- D Production Possibility Set

Answer: D

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Question 52

If at a price, market supply is greater than market demand, we say that there is _____ in the market at that price.

- A Equilibrium
- B Excess Demand
- C Excess Supply
- D Marginal Revenue

Answer: C

Question 53

In which year was All India Anna Dravida Munnetra Kazhagam (AIADMK) founded?

- A 1949
- B 1999
- C 1972
- D 1997

Answer: C

Question 54

Which Fundamental Right in the Indian Constitution includes equal access to shops, bathing, ghats, hotels etc?

- A Right to Liberty and Personal Freedom
- B Right to Freedom of Religion
- C Right to Equality
- D Cultural and Educational Rights

Answer: C

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Question 55

For how many days did Mahatma Gandhi's volunteers of the Salt satyagrah walked?

- A 24
- B 36
- C 12
- D 6

Answer: A

Question 56

The Tomara Rajputs, were defeated in the middle of the twelfth century by the Chauhans of _____.

- A Ayodhya
- B Ajmer
- C Dwarka
- D Gwalior

Answer: B

Question 57

India is the ____ largest country in the world.

- A 3rd
- B 5th
- C 7th
- D 9th

Answer: C

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Question 58

The place on the earth's surface above the focus is called the _____.

- A focus
- B incentre
- C epicentre
- D circumcentre

Answer: C

Question 59

The male sex accessory ducts include vasa efferentia, epididymis, vas deferens and_____.

- A Cervix
- B Rete Testis
- C Glands
- D Seminiferous Tubules

Answer: B

Question 60

The meristem which occurs between mature tissues is known as _____meristem.

- A Intercalary
- B Primary
- C Lateral
- D Apical

Answer: A

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Question 61

Which of the following Phylum are also called flatworms?

- A Mollusca
- B Chordata
- C Ctenophora
- D Platyhelminthes

Answer: D

Question 62

In the formula average velocity = $(u + v) / 2$, u is the _____.

- A Final velocity
- B Initial displacement
- C Initial velocity
- D Final displacement

Answer: C

Question 63

Vocal chords in women are _____ than vocal chords in men.

- A 5mm shorter
- B 15mm shorter
- C 5mm longer
- D 15mm longer

Answer: A

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Question 64

The web uses the _____ to request and serve web pages and programs.

- A Hyper Text Marketing Language
- B Hyper Text Markup Language
- C Hotmail Text Markup Language
- D Home Text Markup Language

Answer: B

Question 65

What is the name of the acid present in grapes?

- A Lactic acid
- B Formic acid
- C Acetic acid
- D Tartaric acid

Answer: D

Question 66

Which fibre is also called as artificial silk?

- A Nylon
- B Rayon
- C Polyester
- D Acrylic

Answer: B

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Question 67

During the past century, the temperature of Earth has increased by _____.

- A 0.6oC
- B 1.6oC
- C 2.6oC
- D 3.6oC

Answer: A

Question 68

_____ scheme was launched by the Central Government to give financial services to weaker section of society.

- A Sukanya Samridhi Yojana
- B Bal Swachta Mission
- C Pradhan Mantri Jan Dhan Yojana
- D Beti Bachao Beti Padhao Yojana

Answer: C

Question 69

Who discovered Uranus?

- A Sir Isaac Newton
- B William Henry Fox Talbot
- C William Herschel
- D Nicolaus Copernicus

Answer: C

General Science Notes for SSC CGL

Question 70

Who was the host nation of 2015 Men's Rugby World Cup?

- A New Zealand
- B South Africa
- C Australia
- D England

Answer: D

Question 71

Who started construction of Nalanda (Mahavihara) ?

- A Dharampala
- B Ashoka
- C Kumaragupta
- D Harihara

Answer: C

Question 72

Who is not amongst the winners of Nobel Prize 2016 for Chemistry?

- A Jean-Pierre Sauvage
- B J. Michael Kosterlitz
- C Sir J. Fraser Stoddart
- D Bernard L. Feringa

Answer: B

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Question 73

Which of the statements given below are correct?

1. The author of the novel 'Missile Gap' is Charles Stross.
2. The author of the novel 'Bird Box' is Victor LaValle.
3. The author of the novel 'The City and the City' is China Mieville.

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

Answer: C

Question 74

Which country was India's largest overseas investment destination in the year 2015-16?

- A Mauritius
- B Switzerland
- C Saudi Arabia
- D Australia

Answer: A

Question 75

China does not share its border with which Indian state?

- A Bihar
- B Arunachal Pradesh
- C Himachal Pradesh
- D Sikkim

Answer: A

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Mathematics

Instructions

For the following questions answer them individually

Question 76

What is the LCM of 64 and 56?

- A 448
- B 488
- C 484
- D 408

Answer: A

Explanation:

(diagram)

so LCM of 64 & 56 is = $8 \times 8 \times 7 = 448$

So the answer is option A.

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Question 77

A and B together do a job in 6.75 days and A could do the job in 9 days if he worked alone. How many days would B take to do the job if he worked alone?

- A 27
- B 18

C 24

D 21

Answer: A

Explanation:

Let total work = 27 units

A+B efficiency = $27/6.75 = 4$

A's efficiency = $27/9 = 3$

B's efficiency = $4-3 = 1$

B alone can complete the work in $27/1 = 27$ days

So the answer is option A.

Question 78

What is the diameter (in cm) of a sphere of surface area 154 sq cm?

A 3.5

B 14

C 10.5

D 7

Answer: D

Explanation:

Surface area of sphere = 154

$$4\pi r^2 = 154$$

$$4 \times \frac{22}{7} r^2 = 154$$

$$r^2 = 12.25$$

$$r = 3.5$$

$$\text{diameter} = 2r = 7$$

So the answer is option D.

Question 79

A Rs 100 shirt is offered at 10% discount and a Rs 300 pair of trousers at 20% discount. If Pritam bought 1 shirt and 3 pairs of trousers, what is the effective discount (in %) he got?

A 19

B 18

C 17

D 16

Answer: A

Explanation:

Pritam bought 1 T shirt and 3 pairs of trousers

$$\text{SP of 1 t shirt} = \frac{100-10}{100} \times 100 = 90$$

$$\text{SP of 3 pairs of trousers} = 3 \times \frac{100-20}{100} \times 300 = 720$$

Total SP = $90+720 = 810$

CP of 1 shirt and 3 trousers = $100 + 3(300) = 1000$

discount = $1000 - 810 = 190$

% discount = $\frac{190}{1000} \times 100 = 19\%$

so the answer is option A.

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Question 80

A's wealth is $\frac{5}{7}$ times of B's and C's is $\frac{10}{7}$ times of B's. What is the ratio of C's wealth to A's?

A (49:100)

B (1:2)

C (2:1)

D (100:49)

Answer: C

Explanation:

$A = \frac{5}{7} (B)$

$C = \frac{10}{7} (B)$

$C : A = \frac{10}{7} : \frac{5}{7} = 2 : 1$

So the answer is option C.

Question 81

The average of four consecutive odd numbers is 64. What is the value of largest number?

A 65

B 69

C 71

D 67

Answer: D

Explanation:

Let those consecutive odd numbers are $x-3, x-1, x+1, x+3$

average = 64

$\frac{4x}{4} = 64$

$x = 64$

largest number is $x+3 = 64+3 = 67$

So the answer is option D.

Question 82

If a wholesaler, sells a box of chocolates at Rs 960 he gains 20%. Now if he decides to sell it at Rs 1120, what is his profit percentage?

A 30

B 40

C 50

D 60

Answer: B

Explanation:

$$\frac{100+20}{100} \times CP = 960$$

$$\frac{120}{100} \times CP = 960$$

$$CP = 800$$

if he decides to sell it at Rs 1120

$$\text{profit} = 1120 - 800 = 320$$

$$\% \text{profit} = \frac{320}{800} \times 100 = 40\%$$

So the answer is option B.

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Question 83

A man wills 25% of his wealth to charity and rest to his family. What percent of the wealth willed to charity does the family get?

A 200

B 33.3

C 300

D 25

Answer: C

Explanation:

Let his wealth = 100

wealth to charity = 25

wealth to family = 75

$$\text{ans} = \frac{75}{25} \times 100 = 300\%$$

So the answer is option C.

Question 84

If a person walks at 15 km/hr instead of 9 km/hr, he would have walked 3 km more in the same time. What is the actual distance (in kms) travelled by him?

A 5.5

B 6.5

C 4.5

D 7.5

Answer: C

Explanation:

Let time = x

$$15x - 9x = 3$$

$$x = 0.5\text{hr}$$

$$\text{distance} = 9x = 9(0.5) = 4.5\text{km}$$

So the answer is option C.

Question 85

Ganesh invested an amount of Rs x in a fixed deposit scheme offering 5% per annum for 1st year and 15% per annum for 2nd year and received an amount of Rs 9660 after two years. What is the value of x (in Rs)?

A 9000

B 8000

C 8500

D 8200

Answer: B

Explanation:

$$P\left(1 + \frac{5}{100}\right)\left(1 + \frac{15}{100}\right) = 9660$$

$$P\left(1 + \frac{1}{20}\right)\left(1 + \frac{3}{20}\right) = 9660$$

$$P\left(\frac{21}{20}\right)\left(\frac{23}{20}\right) = 9660$$

$$P = 8000$$

So the answer is option B.

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Question 86

If $[4(2x/5 - 3/2)]/3 + 7/5 = 37/5$, then what is the value of x ?

A -15

B $7/5$

C 15

D $-7/5$

Answer: C

Explanation:

$$[4(2x/5 - 3/2)]/3 + 7/5 = 37/5$$

$$[8x/5 - 6]/3 = 30/5$$

$$8x/15 - 2 = 6$$

$$8x/15 = 8$$

$$x = 15$$

So the answer is option C.

Question 87

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

A 21

- B 28
- C 23
- D -20

Answer: B

Explanation:

$$a^3 - b^3 = (a - b)^3 + 3(ab)(a - b) = (4)^3 + 3(-3)(4) = 64 - 36 = 28$$

so the answer is option B.

Question 88

Sum of twice a fraction and 3 times its reciprocal is 29/3. What is the fraction?

- A 2/9
- B 5/4
- C 4/5
- D 9/2

Answer: D

Explanation:

Let that fraction be $\frac{1}{x}$

$$2\frac{1}{x} + 3x = \frac{29}{3}$$

$$\Rightarrow (2 + 3x^2) = \frac{19}{4} \times x$$

$$\Rightarrow 9x^2 - 29x + 6 = 0$$

$$\Rightarrow (x - \frac{27}{9})(x - \frac{2}{9}) = 0$$

$$\Rightarrow (x - 3)(x - \frac{2}{9}) = 0$$

$$\Rightarrow x = 3 \text{ or } \frac{2}{9}$$

$$\Rightarrow \text{fraction} = \frac{1}{x} = \frac{1}{3} \text{ (or) } \frac{9}{2}$$

so the answer is option D.

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Question 89

The 7th and 12th term of an arithmetic progression are -15 and 5 respectively. What is the 16th term?

- A 25
- B 29
- C 21
- D 33

Answer: C

Explanation:

$$T_7 = a + 6d = -15 \text{-----(1)}$$

$$T_{12} = a + 11d = 5 \text{-----(2)}$$

on solving (1) AND (2)

$$d = 4 \text{ \& } a = -39$$

$$T_{16} = a + 15d = -39 + 15(4) = 21$$

so the answer is option C.

Question 90

What is the reflection of the point (4, -3) in the line $y = -2$?

- A (4, 1)
- B (-4, 1)
- C (-4, -1)
- D (4, -1)

Answer: D

Explanation:

(diagram)

From the diagram, the reflection of the point (4, -3) in the line $y = -2$ is (4, -1)

so the answer is option D.

Question 91

The distance between the points (2, 7) and (k, -5) is 13. What is the value of k?

- A -7
- B 7
- C 6
- D -6

Answer: B

Explanation:

$$\sqrt{(y_2 - y_1)^2 + (x_2 - x_1)^2} = 13$$

$$(-5 - 7)^2 + (k - 2)^2 = 169$$

$$144 + (k - 2)^2 = 169$$

$$(k - 2)^2 = 169 - 144$$

$$k - 2 = 5$$

$$k = 7$$

So the answer is option B.

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Question 92

What is the equation of the line perpendicular to the line $5x + 3y = 6$ and having Y-intercept -3?

- A $3x - 5y = 15$
- B $3x + 5y = 15$

C $3x - 5y = -15$

D $3x + 5y = -15$

Answer: A

Explanation:

slope = $m = -a/b = -5/3$, $c = -3$

eq of perpendicular line is

$y = (-1/m)x + c$

$y = (3/5)x - 3$

$5y = 3x - 15$

$3x - 5y = 15$

so the answer is option A.

Question 93

D and E are points on side AB and AC of $\triangle ABC$. DE is parallel to BC. If $AD:DB = 2:7$ and area of $\triangle ADE$ is 8 cm sq, what is the area (in sq cm) of quadrilateral BDEC?

A 98

B 94

C 90

D 86

Answer: C

Explanation:

For $\triangle ADE$ & $\triangle ABC$ are similar, $AD:AB = 2:7$

for similar triangles

Ratio of sides = $\sqrt{\text{ratio of areas}}$

$2:7 = \sqrt{\text{ratio of areas}}$

$4:49 = \frac{\text{area of ADE}}{\text{area of ABC}}$

$4:49 = \frac{8}{\text{area of ABC}}$

area of ABC = 98

area of DBCE = area of ABC - area of ADE = $98 - 8 = 90$

So the answer is option C.

Question 94

What is the value of $\sin 30^\circ - \sqrt{2} \cos 30^\circ$?

A $(1 - \sqrt{6})/\sqrt{2}$

B $(1 - \sqrt{6})/2$

C $(3 - \sqrt{6})/2$

D $(3 - \sqrt{6})/\sqrt{2}$

Answer: B

Explanation:

$$\sin 30^\circ - \sqrt{2} \cos 30^\circ$$

$$1/2 - \sqrt{2} (\sqrt{3}/2)$$

$$(1 - \sqrt{6})/2$$

So the answer is option B.

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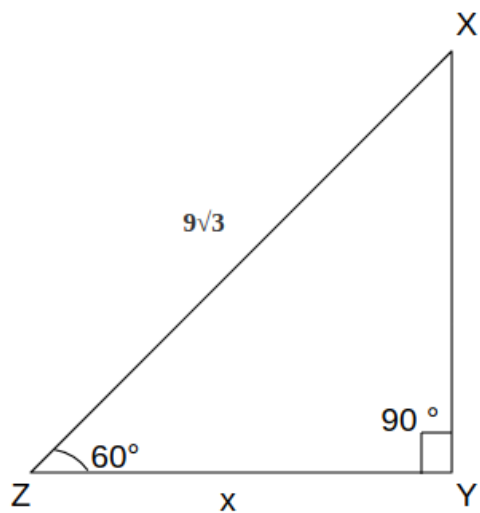
Question 95

ΔXYZ is right angled at Y. If $m\angle Z = 60^\circ$. What is the length (in cm) of YZ, if $ZX = 9\sqrt{3}$ cm?

- A $3\sqrt{3}$
- B $3\sqrt{3}/2$
- C $9\sqrt{3}/2$
- D $\sqrt{3}$

Answer: C

Explanation:



$$\cos Z = x/9\sqrt{3}$$

$$\cos 60^\circ = x/9\sqrt{3}$$

$$1/2 = x/9\sqrt{3}$$

$$x = 9\sqrt{3}/2$$

So the answer is option C.

Question 96

If $\sec \theta = 13/12$, then what is the value of $\sin \theta$?

- A $5/13$
- B $12/5$
- C $12/13$
- D $5/12$

Answer: A

Explanation:

$\sec \theta = 13/12$

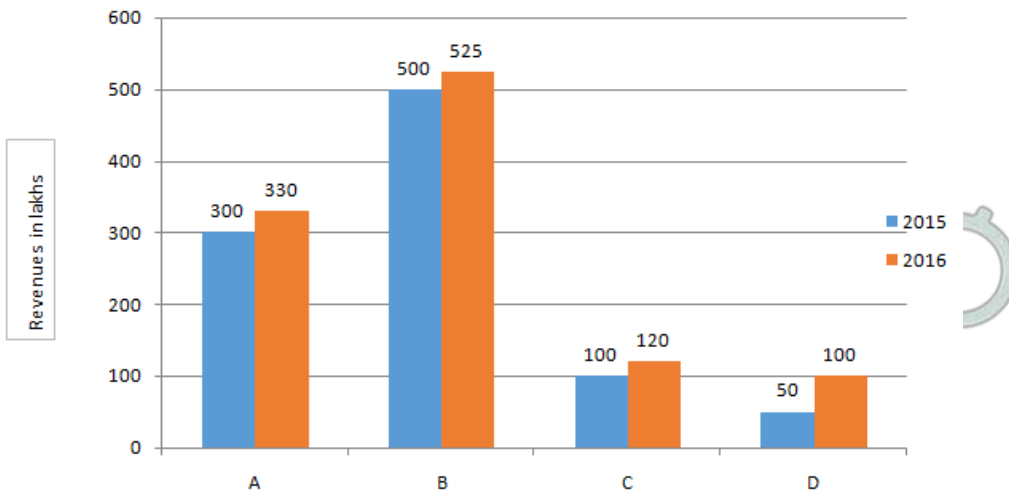
$\cos \theta = 12/13$

$\sin \theta = 5/13$ ($13^2 - 12^2 = 5^2$)

So the answer is option A.

Instructions

The bar graph shows revenues in rupees lakhs from selling four different products (A, B, C, D) by a certain company. Study the diagram and answer the following questions.



Question 97

Revenues from which product were the least in both the years 2015 and 2016?

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

Answer: A

Explanation:

Revenue of A in both years = $300 + 330 = 630$

Revenue of B in both years = $500 + 525 = 1025$

Revenue of C in both years = $100 + 120 = 220$

Revenue of D in both years = $50 + 100 = 150$

D is the least

So the answer is option D.

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Question 98

By what value (in %) the revenue from sale of product B in 2016 was greater than that of 2015?

- A 0.5
- B 5

C 25

D 2

Answer: B

Explanation:

Revenue of B in 2016 = 525

Revenue of B in 2015 = 500

$$\text{answer} = \frac{525-500}{500} \times 100 = \frac{25}{500} \times 100 = 5\%$$

So the answer is option B.

Question 99

By what amount (in Rs crore) the total revenue by selling all the four products in 2016 is greater than that of 2015 ?

A 1

B 0.75

C 1.5

D 1.25

Answer: D

Explanation:

Total revenue in 2016 = 1075

Total revenue in 2015 = 950

$$\text{difference} = 1075 - 950 = 125 = 1.25\text{cr}$$

So the answer is option D.

Question 100

If the cost of producing and selling the four products was Rs 10 crores each in 2015 and 2016 then what is the cumulative profit (in Rs Lakhs) earned in the years 2015 and 2016?

A 75

B 25

C 50

D 100

Answer: B

Explanation:

Total revenue in 2015 = 9.5cr

Total revenue in 2016 = 10.75cr

total revenue = 20.25cr

total cost = 20cr

$$\text{profit} = 20.25 - 20 = 0.25\text{cr} = 25\text{lakhs}$$

so the answer is option B.

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