



2017 SSC CGL 18 Aug Shift-3

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Reasoning

Instructions

For the following questions answer them individually

Question 1

Select the related word from the given alternatives.

School : Teacher :: Court : ?

- A Lawyer
- B Play
- C Tennis
- D Justice

Answer: A

Explanation:

Teacher is the one who works in a school, in the same way a lawyer works in a court.

=> Ans - (A)

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Question 2

Select the related letters from the given alternatives.

EGI : BDF :: KMO : ?

- A GIK
- B MOQ
- C HJL
- D QSU

Answer: C

Explanation:

Expression = EGI : BDF

The pattern followed is :

E	G	I
(-3)	(-3)	(-3)
B	D	F

Similarly, for KMO :

K	M	O
(-3)	(-3)	(-3)
H	J	L

=> Ans - (C)

Question 3

Select the related number from the given alternatives.

5 : -10 :: -8 : ?

- A 16
- B -16
- C 13
- D -13

Answer: A

Explanation:

Expression : $5 : -10 :: -8 : ?$

The pattern followed = $n : -2n$

Eg = $5 : -2(5) = 5 : -10$

Similarly, $-2(-8) = 16$

=> Ans - (A)

Question 4

Select the odd word from the given alternatives.

- A Knife
- B Fork
- C Plate
- D Spoon

Answer: C

Explanation:

Knife, fork and spoon are used to eat in a plate, hence plate is the odd one out.

=> Ans - (C)

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Question 5

Select the odd letters from the given alternatives.

- A AEI
- B JNR
- C SWA
- D FHJ

Answer: D

Explanation:

(A) : A (+4 letters) = E (+4 letters) = I

(B) : J (+4 letters) = N (+4 letters) = R

(C) : S (+4 letters) = W (+4 letters) = A

(D) : F (+2 letters) = H (+2 letters) = J

=> Ans - (D)

Question 6

Select the odd number from the given alternatives.

- A 169
- B 421
- C 529
- D 289

Answer: B

Explanation:

$$169 = 13^2$$

$$529 = 23^2$$

$$289 = 17^2$$

421 is not a perfect square, hence it is the odd one out.

=> Ans - (B)

Question 7

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

hello, lower, error, organ, analyse, ?

- A night
- B rapture
- C senile
- D watch

Answer: C

Explanation:

Expression : hello, lower, error, organ, analyse, ?

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

Eg : hello -> lower -> error -> organ -> analyse

Thus, the next word will start with 'se' and among the options, next term = senile

=> Ans - (C)

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Question 8

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

XXXOXXX, XXXXOXX, XXOXXXX, XXXXXOX, XOXXXXX, ?

- A XXXXXXO
- B OXXXXXXO
- C XXXOXXX

D XXXXXX

Answer: A

Explanation:

Expression : XXXOXXX, XXXXOXX, XXOXXXX, XXXXOX, XOXXXX, ?

The position of 'O' is changed alternatively to the left and right from the centre.

Thus, next term = **XXXXXO**

=> Ans - (A)

Question 9

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

3/5, 1.4, 11/5, ? , 19/5, 4.6

A 14/5

B 3.2

C 16/5

D 3

Answer: D

Explanation:

The pattern followed is that $\frac{4}{5}$ is added to each number.

$$\frac{3}{5} + \frac{4}{5} = \frac{7}{5} = 1.4$$

$$1.4 + \frac{4}{5} = \frac{11}{5}$$

$$\frac{11}{5} + \frac{4}{5} = \frac{15}{5} = 3$$

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

$$\frac{19}{5} + \frac{4}{5} = \frac{23}{5} = 4.6$$

=> Ans - (D)

Question 10

Devansh's birthday is on Friday 14th April. On what day of the week will be Rohan's Birthday in the same year if Rohan was born on 20th September?

A Tuesday

B Friday

C Thursday

D Wednesday

Answer: D

Explanation:

According to the question, 14th April is Friday

Number of days left in April = $30 - 14 = 16$

Similarly, odd days from 14th April till 20th September = $(16 + 31 + 30 + 31 + 31 + 20) \% 7$

= $2 + 3 + 2 + 3 + 3 + 6 = 19$

Now, dividing 19 by 7, remainder = 5

Thus, day on 20th September = Friday (+5) = Wednesday

=> Ans - (D)

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Question 11

The weights of 4 boxes are 20, 40, 80 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 220
- B 230
- C 150
- D 210

Answer: A

Explanation:

Weights of 4 boxes = 20, 40, 80 and 90 kilograms

(A) : 220 = not possible

(B) : 230 = 20 + 40 + 80 + 90

(C) : 150 = 20 + 40 + 90

(D) : 210 = 40 + 80 + 90

=> Ans - (A)

Question 12

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

PREACHER

- A RECAP
- B PARCH
- C PEACH
- D CARES

Answer: D

Explanation:

The word PREACHER does not have any 'S', and thus the word 'Cares' cannot be formed.

=> Ans - (D)

Question 13

If **MIGRANT** is coded as **LHFQZMS**, then how will **GEL** be coded as?

- A QXK
- B FDK
- C IXZ

D IFG

Answer: B

Explanation:

MIGRANT is coded as LHFQZMS

The pattern followed is :

M	I	G	R	A	N	T
(-1)	(-1)	(-1)	(-1)	(-1)	(-1)	(-1)
L	H	F	Q	Z	M	S

Similarly, for GEL :

G	E	L
(-1)	(-1)	(-1)
F	D	K

=> Ans - (B)

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Question 14

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

$$27 \times 3 \div 30 + 5 - 125 = ?$$

A 69

B 67

C -15

D -16

Answer: D

Explanation:

$$\text{Expression} = 27 \times 3 \div 30 + 5 - 125 = ?$$

$$\equiv 27 \div 3 - 30 \times 5 + 125$$

$$= 9 - 150 + 125 = -16$$

=> Ans - (D)

Question 15

If $11\$25 = 18$, $12\$20 = 16$ then what is the value of $4\$50 = ?$

A 42

B 17

C 27

D 37

Answer: C

Explanation:

The pattern followed is that for $a \$ b = \frac{a+b}{2}$

$$\text{Eg : } 11\$25 = \frac{11+25}{2} = \frac{36}{2} = 18$$

$$\text{and } 12 \div 20 = \frac{12+20}{2} = \frac{32}{2} = 16$$

$$\text{Similarly, } 4 \div 50 = \frac{4+50}{2} = \frac{54}{2} = 27$$

=> Ans - (C)

Question 16

Select the missing number from the given responses

21	27	29
?	96	142
57	69	113

- A 46
- B 69
- C 29
- D 78

Answer: D

Explanation:

In each column, the number in the middle is obtained by adding the other two numbers.

$$\text{Eg : } 27 + 69 = 96$$

$$\text{and } 29 + 113 = 142$$

$$\text{Similarly, } 21 + 57 = 78$$

=> Ans - (D)

General Science Notes for SSC CGL

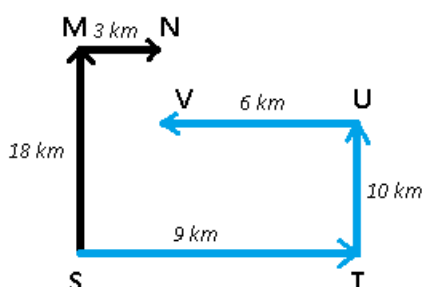
Question 17

P and Q start cycling from the same point. P cycles 18 km North, then turns to her right and cycles 3 km. Q cycles 9 km East, then turns North and cycles 10 km North, then turns left and cycles 6 km. Where is Q now with respect to the position of P?

- A 8 km South
- B 8 km North
- C 28 km South
- D 28 km North

Answer: A

Explanation:



Let both P and Q start from point S. P's path is shown by black and Q's by blue.

P cycles 18 km north and reaches M, then takes right turn and reaches point N by cycling 3 km.

Similarly, Q cycles east for 9 km and reaches T, then turns north for 10 km and finally stops at point V.

Thus, $NV = 18 - 10 = 8$ km

\therefore Q is 8 km to the south of P.

\Rightarrow Ans - (A)

Question 18

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 rock shows be allowed to run till midnight at tourist places?

Argument I : Yes, more tourists arrive due to rock shows. Tourism is good for local economy.

Argument II : No, local traditions are harmed due to tourism.

- 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:

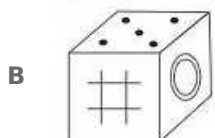
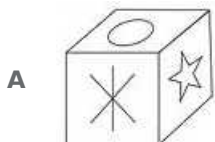
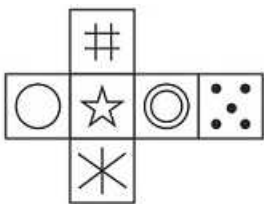
The first statement indicates that allowing the rock shows to run till mid night has a positive impact on the economy due to tourism, hence it is a strong argument. But, the second argument argues about tourism and not rock shows, hence it is not a strong argument.

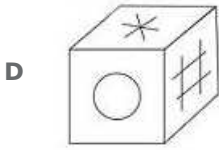
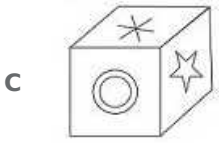
Thus, only argument I is strong.

\Rightarrow Ans = (A)

Question 19

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

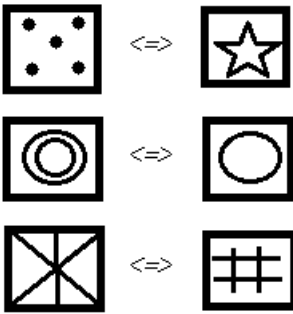




Answer: D

Explanation:

When we fold the given figure, the circle with a '2 circles' sign will become the base of the cube and the side with '1 circle' sign will become top, and thus they will face each other. Similarly, the sides which will face each other will be :



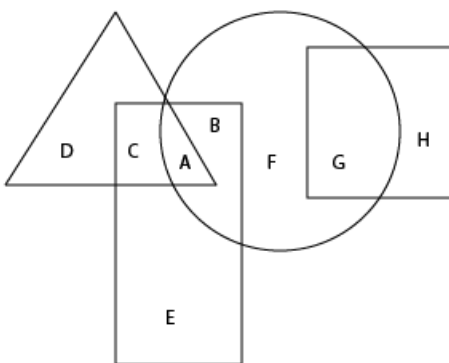
Since, the opposite sides cannot be adjacent in the cube, thus the cube in the last option is not possible.

=> Ans - (D)

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Question 20

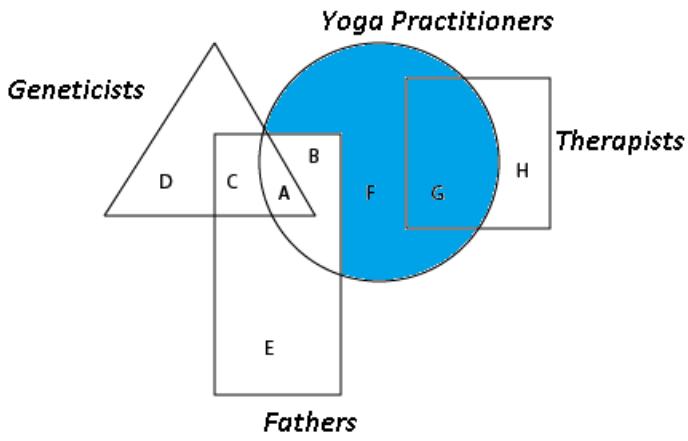
In the following figure, square represents Therapists, triangle represents Geneticists, circle represents yoga practitioners and rectangle represents Fathers. Which set of letters represents yoga practitioners who are neither geneticists nor fathers?



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

Answer: D

Explanation:

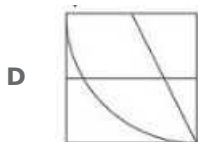
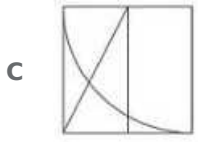
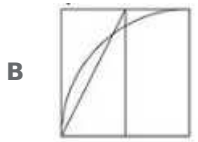
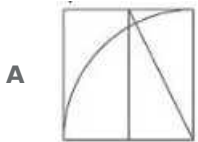
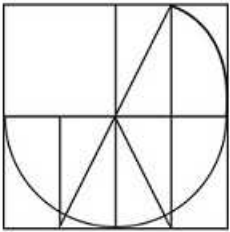


Yoga practitioners who are neither geneticists nor fathers are represented by blue region = F + G

=> Ans - (D)

Question 21

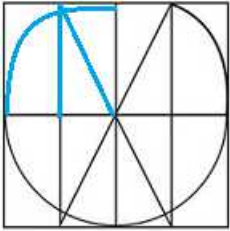
Which answer figure will complete the pattern in the question figure



Answer: A

Explanation:

When we complete the above figure, we get :

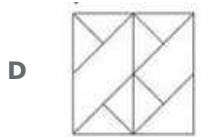
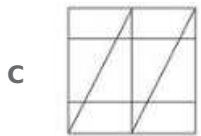
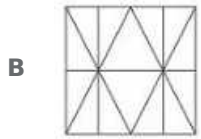
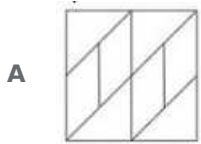
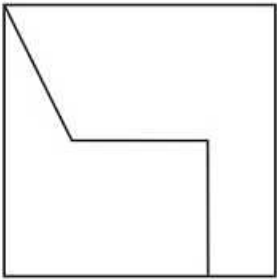


Now, the first figure resembles the above missing part in blue colour.

=> Ans - (A)

Question 22

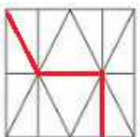
From the given answer select in one in which the question figure is hidden / embedded



Answer: B

Explanation:

The question figure is embedded in the following figure :

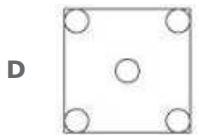
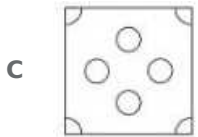
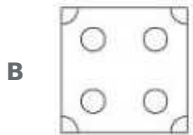
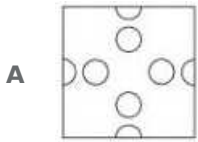
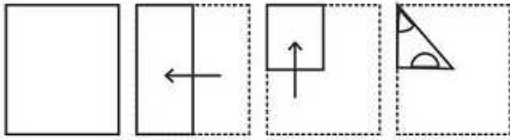


=> Ans - (B)

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Question 23

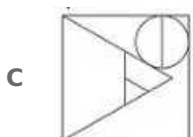
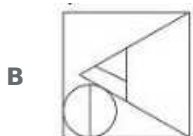
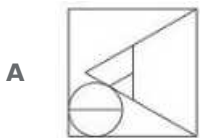
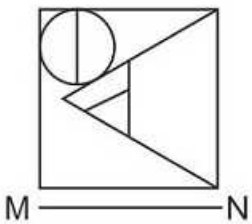
A piece of paper is folded and punched as shown below in the question figures. From the given answer figures, indicate how it will appear when opened.



Answer: C

Question 24

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



D



Answer: B

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 triangle will also point towards left in the mirror image, and thus the last two options are eliminated.

Also, the circle at top left will appear at bottom left in the mirror, so the first option is also not possible.

=> Ans - (B)

Question 25

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 87, 78 etc. Similarly, you have to identify the set for the word 'REAL'.

Matrix - I

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

Matrix - II

	5	6	7	8	9
5	Y	Y	V	R	S
6	U	R	R	Z	U
7	W	P	N	Z	S
8	R	P	Z	Y	Y
9	P	S	N	R	V

A 21,10,85,96

B 85,10,31,04

C 14,02,58,88

D 20,20,77,56

Answer: B

Explanation:

(A) : 21,10,85,96 = HERS

(B) : 85,10,31,04 = **REAL**

(C) : 14,02,58,88 = LDRY

(D) : 20,20,77,56 = DDNY

=> Ans - (B)

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General Awareness

Instructions

For the following questions answer them individually

Question 26

The _____ exchange rate is the price of one unit of foreign currency in terms of domestic currency.

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

Answer: B

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Question 27

_____ of an input is defined as the change in output per unit of change in the input when all other inputs are held constant.

- A Marginal product
- B Production function
- C Total product
- D Average product

Answer: A

Question 28

"Trade unions" is listed in the _____ list given in the Seventh Schedule of the Constitution of India.

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

Answer: D

Question 29

_____ writ is issued by a higher court (High Court or Supreme Court) when a lower court has considered a case going beyond its jurisdiction.

- A Habeas Corpus
- B Mandamus
- C Prohibition
- D Quo Warranto

Answer: C

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Question 30

Arrest of _____ in 1930 led to angry demonstrations in streets of Peshawar.

- A Abdul Ghaffar Khan
- B Abul Kalam Azad
- C Zakir Hussain
- D Muzaffar Ahmed

Answer: A

Question 31

The _____ were the successors of Timur, the ruler of Iran, Iraq and modern-day Turkey.

- A Rajputs
- B Khaljis
- C Mughals
- D Tughluq

Answer: C

Question 32

Beyond the _____, the Himalayas bend sharply to the south and spread along the eastern boundary of India.

- A Zoji La Pass
- B Dihang gorge
- C Bhutan border
- D Nepal Border

Answer: B

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Question 33

The National Highway 1A connects Leh to Kashmir Valley through the _____ pass.

- A Khyber
- B Zoji la
- C Nathula
- D Karakoram

Answer: B

Question 34

In the names *Mangifera indica* (mango), *Solanum tuberosum* (potato) and *Panthera leo* (lion), the terms *Mangifera*, *Solanum* and *Panthera* represent the higher level of?

- A Taxon

- B Taxonomic Hierarchy
- C Specific Epithet
- D Binomial Nomenclature

Answer: A

Question 35

Which of the following is one of the commercial products obtained from Gelidium and Gracilaria and are used to grow microbes and in preparations of ice-creams and jellies?

- A Agar
- B Chlorella
- C Spirulina
- D Gymnosperms

Answer: A

SSC CPO Previous Question papers (download pdf)

Question 36

Taenia (Tapeworm), Fasciola (Liver fluke) are examples of which Phylum?

- A Coelenterata
- B Platyhelminthes
- C Annelida
- D Arthropoda

Answer: B

Question 37

If the mass of an object is 60 kgs, what will be its weight on the moon? (N=Newton)

- A 60N
- B 600N
- C 100N
- D 10N

Answer: C

Question 38

The side mirrors of vehicles are of which type of mirrors?

- A Convex
- B Concave
- C Plane

D Inverted

Answer: A

SSC GD Previous Question papers (download pdf)

Question 39

In Microsoft Excel, the _____ () function returns the largest value among the values passed as arguments.

A HIGHEST

B MORE

C HIGH

D MAX

Answer: D

Question 40

In an acid base reaction which product is produced along with a salt?

A Hydrogen gas

B Oxygen gas

C Carbon dioxide

D Water

Answer: D

Question 41

What is the process of melting also called?

A Fusion

B Galvanisation

C Crystallisation

D Evaporation

Answer: A

SSC MTS Previous Question papers (download pdf)

Question 42

Which one of the following is not a Major Abiotic Factors?

A Temperature

B Water

C Light

D Air

Answer: D

Question 43

_____ scheme launched by the Central Government aims to promote entrepreneurship among people from schedule caste/schedule tribe.

- A** Pradhan Mantri Fasal Bima Yojana
- B** Gram Uday Se Bharat Uday Abhiyan
- C** Stand up India scheme
- D** National RU URBAN Mission

Answer: C

Question 44

Who discovered Potassium?

- A** Humphry Davy
- B** Alan Turing
- C** Bill Gates
- D** Tim Berners-Lee

Answer: A

SSC Stenographer Previous Question papers (download pdf)

Question 45

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

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

Answer: A

Question 46

Where is Humayun's Tomb is located?

- A** Hyderabad
- B** New Delhi
- C** Mumbai
- D** Kolkata

Answer: B

Question 47

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

- A** Compton
- B** 2014 Forest Hills Drive
- C** To Pimp a Butterfly
- D** The Pinkprint

Answer: C

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Question 48

Which of the statements given above are correct?

- 1.** The author of the novel 'Brave New World' is Aldous Huxley.
- 2.** The author of the novel 'An Affair Downstairs' is Sherri Browning.
- 3.** The author of the novel 'Darkness at Noon' is Victor LaValle.

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

Answer: A

Question 49

To which country, India gave Rs. 35 crore rupees to children of freedom fighters in under the new 'Muktijodha scholarship' scheme?

- A** Nepal
- B** Bhutan
- C** Bangladesh
- D** Sri Lanka

Answer: C

Question 50

Which nation is not a part of the South Asian Free Trade Area?

- A** China
- B** Sri Lanka
- C** Bhutan
- D** India

Answer: A

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English

Instructions

For the following questions answer them individually

Question 51

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'.

As Benjamin ran (a:/ next the street, he wondered (b:/ what he should buy. (c:/No Error (d:

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

Answer: B

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Question 52

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

It had a bright blue (a:/ cover, which he was (b:/ careful not do soil. (c:/No Error (d:

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

Answer: C

Question 53

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

Although the school lunch passed the legal standards, _____ or not it is healthy is debatable.

- A weather
- B if
- C whether
- D either

Answer: C

Question 54

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.

Seventeen students were needed for a _____ in order to discuss the topics during the Student Council meeting.

- A decorum
- B quota
- C quorum
- D quote

Answer: C

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Question 55

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

Posterior

- A Anterior
- B Antecedent
- C Dorsal
- D Former

Answer: C

Question 56

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

Emphasis

- A Ignorance
- B Lethargy
- C Triviality
- D Significance

Answer: D

Question 57

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

Lambency

- A Effulgence

- B Dullness
- C Gusto
- D Phosphorescence

Answer: B

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Question 58

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

Turgid

- A Bloated
- B Humble
- C Puffy
- D Tumescant

Answer: B

Question 59

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

In bad taste

- A Not suitable or offensive
- B To be a bad cook
- C To have a poor choice of fashion style
- D To express honest harsh opinion about someone or something

Answer: A

Question 60

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

Once and for all

- A Now and for the last time; finally
- B To be successful in the first attempt
- C To do a charitable act for the benefit of everybody
- D To speak for the majority

Answer: A

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Question 61

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".

His shoes (to cover) with mud.

- A was covered
- B were covered
- C were covering
- D no improvement

Answer: B

Question 62

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".

The tropical storm (be) a hurricane

- A will become
- B become
- C to become
- D no improvement

Answer: A

Question 63

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

Seeking to harm someone in return for a perceived injury

- A Affable
- B Cordial
- C Vengeful
- D Benign

Answer: C

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Question 64

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

The state of being in short supply

- A Plethora
- B Myriad

- C Scarcity
- D Profusion

Answer: C

Question 65

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

- A Scriptare
- B Screenshot
- C Scripture
- D Screenshot

Answer: C

Question 66

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

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

Answer: D

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Question 67

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.

It was a somewhat

X-carried it off as

Y-trying ordeal, but we

Z-best as we could

- A YXZ
- B XZY
- C XYZ
- D ZYX

Answer: A

Question 68

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.

The considerations which

X-are set forth in our

Y-lead us to refer ideas to the brain

Z-physiologies and psychologies

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

Answer: A

Question 69

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.

Omkar generously donated money to the orphanage.

- A Money was generously donated to the orphanage by Omkar.
- B Money is generously donated to the orphanage by Omkar.
- C Donating of the money generously was done by Omkar.
- D Donating of the money generously is done by Omkar.

Answer: A

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Question 70

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.

My grandfather said to the visitor, "Who are you? Where do you come from?"

- A My grandfather enquired the visitor who are you, where do you come from.
- B My grandfather enquired the visitor who he was and where he came from.
- C My grandfather enquires of the visitor who he was and where he came from.
- D My grandfather enquires the visitor who are you, where do you come from.

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.

As one of the most misunderstood practices, yoga has often borne the brunt of being ___(1)___ in extremes: of yogis in pretzel-like contortions at ___(2)___ end of the spectrum, and young Instagram-led, erstwhile-overweight beach posers ___(3)___ the other. The truth is that yoga is what you want it to be — the ultimate customisable

exercise form. For a runner, it may mean lengthening muscles to gain ____ (4) ____, while for someone who is hyper-flexible, it could be a way of ____ (5) ____ core strength.

Question 71

(1)

- A see
- B seen
- C saw
- D to see

Answer: B

Question 72

(2)

- A first
- B one
- C once
- D that

Answer: B

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Question 73

(3)

- A in
- B on
- C of
- D at

Answer: D

Question 74

(4)

- A flexible
- B flexibleness
- C flexibilities
- D flexibility

Answer: D

Question 75

(5)

- A enhance
- B enhancing
- C enhances
- D to enhance

Answer: B

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Mathematics

Instructions

For the following questions answer them individually

Question 76

What will be the quotient when 2143 is divided by 38?

- A 56
- B 55
- C 57
- D 54

Answer: A

Explanation:

$$2143/38 = 56 \frac{15}{38}$$

So the answer is option A.

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Question 77

A and B together do a job in 15 days and A alone could do the same job in 20 days. How many days would B take to do half the job if he worked alone?

- A 60
- B 30
- C 45
- D 40

Answer: B

Explanation:

Let total work = LCM of 15 & 20 = 60 units

Efficiency of both A & B = $60/15 = 4$

Efficiency of A = $60/20 = 3$

Efficiency of B = $4 - 3 = 1$

So B can complete the half of the job in $30/1 = 30$ days

So the answer is option B.

Question 78

What is the area (in sq cm) of a rectangle if its diagonal is 51 cm and one of its sides is 24 cm?

- A 540
- B 810
- C 1080
- D 360

Answer: C

Explanation:

Breadth = $b = 24$ cm and Diagonal = $d = 51$ cm

=> Length of rectangle = $l = \sqrt{d^2 - b^2}$

$$= \sqrt{(51)^2 - (24)^2} = \sqrt{2601 - 576}$$

$$= \sqrt{2025} = 45 \text{ cm}$$

∴ Area of rectangle = lb

$$= 45 \times 24 = 1080 \text{ cm}^2$$

=> Ans - (C)

Question 79

A shopkeeper marks up his wares by 60% and offers 10% discount. What will be the selling price (in Rs) if the cost price is Rs 7500?

- A 11800
- B 12800
- C 13800
- D 10800

Answer: D

Explanation:

Cost price = Rs. 7500

Markup % = 60%

$$\Rightarrow \text{Marked price} = \frac{160}{100} \times 7500 = \text{Rs. } 12,000$$

Discount % = 10%

$$\Rightarrow \text{Selling price} = 12000 - \left(\frac{10}{100} \times 12000\right)$$

$$= 12000 - 1200 = \text{Rs. } 10,800$$

=> Ans - (D)

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Question 80

What number should be added to each of the numbers 94, 24, 100 and 26, so that the resulting numbers are in continued proportion?

- A 10
- B 11
- C 9
- D 8

Answer: B

Explanation:

Let the number added to the numbers 94, 24, 100 and 26 be x

=> Proportion of the new numbers :

$$\Rightarrow \frac{94+x}{24+x} = \frac{100+x}{26+x}$$

$$\Rightarrow (94 + x)(26 + x) = (100 + x)(24 + x)$$

$$\Rightarrow 2444 + 94x + 26x + x^2 = 2400 + 100x + 24x + x^2$$

$$\Rightarrow 120x + 2444 = 124x + 2400$$

$$\Rightarrow 124x - 120x = 2444 - 2400$$

$$\Rightarrow 4x = 44$$

$$\Rightarrow x = \frac{44}{4} = 11$$

=> Ans - (B)

Question 81

A batsman makes a score of 81 runs in the 16th match and thus increases his average runs per match by 3. What is his average after the 16th match?

- A 35
- B 34
- C 33
- D 36

Answer: D

Explanation:

Let average runs of the batsman in the first 15 matches = x

=> Total runs scored in 15 matches = $15x$

Runs scored in 16th match = 81

$$\Rightarrow \text{New average} = \frac{15x+81}{16} = x + 3$$

$$\Rightarrow 15x + 81 = 16x + 48$$

$$\Rightarrow 16x - 15x = 81 - 48$$

$$\Rightarrow x = 33$$

Average after the 16th match = $33 + 3 = 36$.

Therefore, option D is the right answer.

Question 82

A vendor buys 12 bananas for Rs 60 and sells 5 bananas for Rs 32. What will be his gain (in %)?

- A 28
- B 32
- C 24
- D 22

Answer: A

Explanation:

Cost price of 12 bananas = Rs. 60

$$\Rightarrow \text{CP of 1 banana} = \frac{60}{12} = \text{Rs. } 5$$

Selling price of 5 bananas = Rs. 32

$$\Rightarrow \text{SP of 1 banana} = \frac{32}{5} = \text{Rs. } 6.4$$

$$\therefore \text{Profit \%} = \frac{6.4-5}{5} \times 100$$

$$= 1.4 \times 20 = 28\%$$

\Rightarrow Ans - (A)

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Question 83

Two labourers A and B are paid a total of Rs. 1120 per day. If A is paid 180 percent of what is paid to B, how much (in Rs) is B paid?

- A 400
- B 720
- C 500
- D 620

Answer: A

Explanation:

Let amount paid to B = Rs. $100x$

$$\Rightarrow \text{Amount paid to A} = \frac{180}{100} \times 100x = \text{Rs. } 180x$$

$$\text{Total amount} = 180x + 100x = 1120$$

$$\Rightarrow x = \frac{1120}{280} = 4$$

$$\therefore \text{Amount paid to B} = 100 \times 4 = \text{Rs. } 400$$

\Rightarrow Ans - (A)

Question 84

A man travelled a distance of 99 km in 9 hours. He travelled partly on foot @ 9 km/hr and partly on bicycle @ 18 km/hr. What is distance (in kms) travelled on foot?

- A 36

B 54

C 63

D 45

Answer: C

Explanation:

Total distance travelled by man = 99 km in 9 hours

Let distance travelled on foot = d km

=> Distance travelled on bicycle = $(99 - d)$ km

Speed on foot = 9 km/hr and on bicycle = 18 km/hr

Using, time = distance/speed

$$\text{Total time taken} = \frac{d}{9} + \frac{99-d}{18} = 9$$

$$\Rightarrow \frac{1}{9} \left(d + \frac{99-d}{2} \right) = 9$$

$$\Rightarrow \frac{2d+99-d}{2} = 81$$

$$\Rightarrow d + 99 = 81 \times 2 = 162$$

$$\Rightarrow d = 162 - 99 = 63 \text{ km}$$

=> Ans - (C)

Question 85

The compound interest earned in two years at 15% per annum is Rs 20640. What is the sum invested (in Rs)?

A 64000

B 60000

C 56000

D 52000

Answer: A

Explanation:

Let the sum invested = Rs. $100x$

Rate of interest = 15% and time period = 2 years

$$\text{Compound interest} = P \left[\left(1 + \frac{r}{100} \right)^t - 1 \right]$$

$$\Rightarrow 100x \left[\left(1 + \frac{15}{100} \right)^2 - 1 \right] = 20640$$

$$\Rightarrow 100x \left[\left(\frac{23}{20} \right)^2 - 1 \right] = 20640$$

$$\Rightarrow 100x \left(\frac{529-400}{400} \right) = 20640$$

$$\Rightarrow \frac{129x}{4} = 20640$$

$$\Rightarrow x = 20640 \times \frac{4}{129}$$

$$\Rightarrow x = 160 \times 4 = 640$$

$$\therefore \text{Sum invested} = 100 \times 640 = \text{Rs. } 64,000$$

=> Ans - (A)

SSC CGL Important Questions PDF

Question 86

If $5x/2 - [7(6x - 3/2)]/4 = 5/8$, then what is the value of x ?

- A $1/4$
- B $-1/4$
- C 4
- D -4

Answer: A

Explanation:

$$\text{Expression : } \frac{5x}{2} - \left[\frac{7}{4} \left(6x - \frac{3}{2} \right) \right] = \frac{5}{8}$$

$$= \frac{5x}{2} - \left[\frac{7}{4} \left(\frac{12x-3}{2} \right) \right] = \frac{5}{8}$$

$$= \frac{20x}{8} - \left(\frac{84x-21}{8} \right) = \frac{5}{8}$$

$$= 20x - 84x + 21 = 5$$

$$= -64x = 5 - 21 = -16$$

$$= x = \frac{-16}{-64} = \frac{1}{4}$$

=> Ans - (A)

Question 87

If $a^3 - b^3 = 91$ and $a - b = 1$, then what is the value of ab ?

- A 27
- B 6
- C 9
- D 30

Answer: D

Explanation:

Given : $a^3 - b^3 = 91$ -----(i)

Also, $a - b = 1$ -----(ii)

Cubing both sides, we get :

$$\Rightarrow (a - b)^3 = (1)^3$$

$$\Rightarrow a^3 - b^3 - 3ab(a - b) = 1$$

Substituting values from equation (i) and (ii)

$$\Rightarrow 91 - 3ab(1) = 1$$

$$\Rightarrow 3ab = 91 - 1 = 90$$

$$\Rightarrow ab = \frac{90}{3} = 30$$

=> Ans - (D)

Question 88

A positive fraction is greater than twice its reciprocal by $\frac{7}{15}$. What is the fraction?

- A $\frac{3}{5}$
- B $\frac{5}{3}$
- C $\frac{3}{4}$
- D $\frac{4}{3}$

Answer: B

Explanation:

Let the fraction be x

According to ques,

$$\Rightarrow x - \frac{2}{x} = \frac{7}{15}$$

$$\Rightarrow \frac{x^2 - 2}{x} = \frac{7}{15}$$

$$\Rightarrow 15x^2 - 30 = 7x$$

$$\Rightarrow 15x^2 - 7x - 30 = 0$$

$$\Rightarrow 15x^2 - 25x + 18x - 30 = 0$$

$$\Rightarrow 5x(3x - 5) + 6(3x - 5) = 0$$

$$\Rightarrow (3x - 5)(5x + 6) = 0$$

$$\Rightarrow x = \frac{5}{3}, \frac{-6}{5}$$

$$\because x \text{ is positive, } \Rightarrow x = \frac{5}{3}$$

\Rightarrow Ans - (B)

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Question 89

What is the sum of the first 17 terms of an arithmetic progression if the first term is -20 and last term is 28?

- A 68
- B 156
- C 142
- D 242

Answer: A

Explanation:

First term of AP = $a = -20$ and last term = $l = 28$

Number of terms = $n = 17$

$$\text{Sum of AP} = \frac{n}{2}(a + l)$$

$$= \frac{17}{2}(-20 + 28)$$

$$= 17 \times 4 = 68$$

\Rightarrow Ans - (A)

Question 90

What is the reflection of the point (-3, 1) in the line $x = -2$?

- A (-1, 1)
- B (-3, -5)
- C (1, 1)
- D (-3, 5)

Answer: A

Explanation:

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

Now, Reflection of point (-3,1) in line $x=-2$

$$= [3+2(-2),1]=(-1,1)$$

=> Ans - (A)

Question 91

The co-ordinates of the centroid of a triangle ABC are (2, 2). What are the co-ordinates of vertex C if co-ordinates of A and B are (7, -1) and (1, 2) respectively?

- A (-2, 5)
- B (2, 5)
- C (-2, -5)
- D (2, -5)

Answer: A

Explanation:

Coordinates of centroid of triangle with vertices (x_1, y_1) , (x_2, y_2) and (x_3, y_3) is $\left(\frac{x_1+x_2+x_3}{3}, \frac{y_1+y_2+y_3}{3}\right)$

Let coordinates of vertex C = (x, y)

Vertex A(7,-1) and Vertex B(1,2) and Centroid = (2,2)

$$\Rightarrow 2 = \frac{7+1+x}{3}$$

$$\Rightarrow x + 8 = 2 \times 3 = 6$$

$$\Rightarrow x = 6 - 8 = -2$$

$$\text{Similarly, } \Rightarrow 2 = \frac{-1+2+y}{3}$$

$$\Rightarrow y + 1 = 2 \times 3 = 6$$

$$\Rightarrow y = 6 - 1 = 5$$

∴ Coordinates of vertex C = (-2,5)

=> Ans - (A)

General Science Notes for SSC CGL

Question 92

If $ax - 4y = -6$ has a slope of $-3/2$. What is the value of a?

- A 6
- B 3
- C -6
- D -3

Answer: C

Explanation:

Slope of line : $ax - 4y = -6 \Rightarrow \frac{a}{4}$

According to ques,

$$\Rightarrow \frac{a}{4} = \frac{-3}{2}$$

$$\Rightarrow a = \frac{-3}{2} \times 4 = -6$$

\Rightarrow Ans - (C)

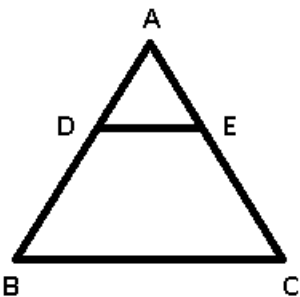
Question 93

D and E are points on side AB and AC of ΔABC . DE is parallel to BC. If $AD:DB = 1:2$ and area of ΔABC is 45 sq cm, what is the area (in sq cm) of quadrilateral BDEC?

- A 20
- B 40
- C 15
- D 30

Answer: B

Explanation:



It is given that $AD : DB = 1 : 2$

Let $AD = 1$ cm and $DB = 2$ cm

Let area of $\Delta ADE = x$ sq cm

In ΔADE and ΔABC

$$\angle DAE = \angle BAC \text{ (common)}$$

$$\angle ADE = \angle ABC \text{ (Alternate interior angles)}$$

$$\angle AED = \angle ACB \text{ (Alternate interior angles)}$$

$$\Rightarrow \Delta ADE \sim \Delta ABC$$

$$\Rightarrow \text{Ratio of Area of } \Delta ADE : \text{Area of } \Delta ABC = \text{Ratio of square of corresponding sides} = (AD)^2 : (AB)^2$$

$$= \frac{(1)^2}{(1+2)^2} = \frac{x}{45}$$

$$\Rightarrow \frac{x}{45} = \frac{1}{9}$$

$$\Rightarrow x = \frac{45}{9} = 5$$

\therefore Area of quadrilateral BDEC = ar(\triangle ABC) - ar(\triangle ADE)

$$= 45 - 5 = 40 \text{ cm}^2$$

\Rightarrow Ans - (B)

Question 94

What is the value of $\sqrt{2} \sec 45^\circ + (1/\sqrt{3})\tan 30^\circ$?

A $(1 + \sqrt{3})/2$

B $(1 + 3\sqrt{2})/\sqrt{3}$

C $7/3$

D $(3 + 2\sqrt{2})/3\sqrt{2}$

Answer: C

Explanation:

Expression : $\sqrt{2} \sec 45^\circ + (1/\sqrt{3})\tan 30^\circ$

$$= (\sqrt{2} \times \sqrt{2}) + \left(\frac{1}{\sqrt{3}} \times \frac{1}{\sqrt{3}}\right)$$

$$= 2 + \frac{1}{3} = \frac{7}{3}$$

\Rightarrow Ans - (C)

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Question 95

\triangle XYZ is right angled at Y. If $m\angle Z = 30^\circ$. What is the length of YZ (in cm), if ZX = 9 cm?

A $6\sqrt{3}$

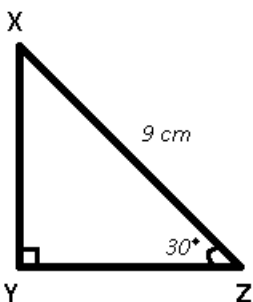
B $9\sqrt{3}/2$

C $3\sqrt{3}$

D 18

Answer: B

Explanation:



Given : ZX = 9 cm and $\angle Z = 30^\circ$

To find : YZ = ?

Solution : In $\triangle XYZ$,

$$\Rightarrow \cos(30^\circ) = \frac{YZ}{ZX}$$

$$\Rightarrow \frac{\sqrt{3}}{2} = \frac{YZ}{9}$$

$$\Rightarrow YZ = \frac{9\sqrt{3}}{2} \text{ cm}$$

\Rightarrow Ans - (B)

Question 96

If $\cos \theta = 15/17$, then what is the value of $\operatorname{Cosec} \theta$?

A 17/8

B 8/17

C 8/15

D 17/15

Answer: A

Explanation:

Given : $\cos \theta = \frac{15}{17}$

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

$$\Rightarrow \sin^2 \theta = 1 - \left(\frac{15}{17}\right)^2$$

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

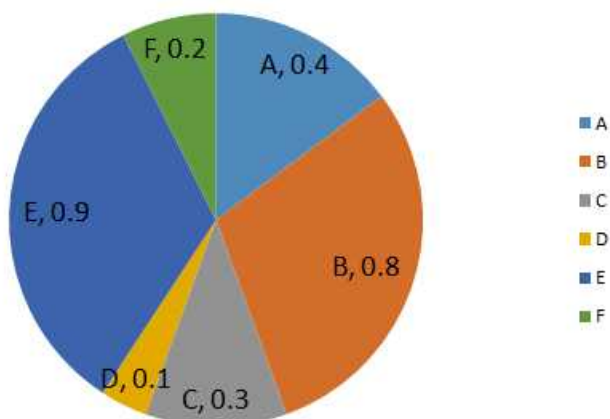
$$\Rightarrow \sin \theta = \sqrt{\frac{64}{289}} = \frac{8}{17}$$

$$\therefore \operatorname{cosec} \theta = \frac{1}{\sin \theta} = \frac{17}{8}$$

\Rightarrow Ans - (A)

Instructions

The pie chart shows the annual car production (in millions) of six countries (A, B, C, D, E, F). Study the diagram and answer the following questions.



Question 97

Which country produced the second least number of cars?

A D

B F

C C

D A

Answer: B

Explanation:

Clearly, **Country F** produced the second least number of cars = 0.2 million

=> Ans - (B)

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Question 98

Country E produced how many more cars (in %) than country B?

A 10

B 12.5

C 11.11

D 8

Answer: B

Explanation:

Cars produced by country E (in millions) = 0.9

Cars produced by country B (in millions) = 0.8

=> Required % = $\frac{0.9-0.8}{0.8} \times 100$

= $\frac{100}{8} = 12.5\%$

=> Ans - (B)

Question 99

If 35% of the cars produced by these six countries are diesel and the rest are petrol, then how many petrol cars were produced (in millions)?

A 1.755

B 0.945

C 2.7

D 1.8

Answer: A

Explanation:

Total cars produced in the 6 countries

= $0.4 + 0.8 + 0.3 + 0.1 + 0.9 + 0.2 = 2.7$ million

% petrol cars produced = $(100-35)\% = 65\%$

∴ Number of petrol cars produced (in millions) = $\frac{65}{100} \times 2.7$

= 1.755

=> Ans - (A)

Question 100

If on an average the cost price of a car is 30000 USD and environmental tax levied on each car is 2.5% of its cost price, how much environmental tax was collected (in billion USD) from production of cars in these 6 countries?

- A 1.03
- B 2.03
- C 3.03
- D 4.03

Answer: B

Explanation:

Total cars produced in the 6 countries

$$= 0.4 + 0.8 + 0.3 + 0.1 + 0.9 + 0.2 = 2.7 \text{ million}$$

Cost price of a car = 30,000 USD

$$\text{Environmental tax on 1 car} = \frac{2.5}{100} \times 30,000 = 750 \text{ USD}$$

$$\therefore \text{Total tax collected} = 2.7 \times 750 = 2025 \text{ million USD}$$

$$= 2.03 \text{ billion USD}$$

=> Ans - (B)

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