



SSC CGL 2010 Tier 1 - Shift 2

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Reasoning

Instructions

For the following questions answer them individually

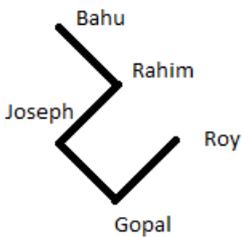
Question 1

Bahu is Rahim's neighbour and his house is 200 metres away in the north west direction. Joseph is Rahim's neighbour and his house is located 200 metres away in the south west direction. Gopal is Joseph's neighbour and he stays 200 metres away in the south east direction. Roy is Gopal's neighbour and his house is located 200 metres away in the north east direction. Then where is the position of Roy's house in relation to Babu's ?

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

Answer: A

Explanation:



It can be seen from above diagram that Roy is in south east direction to Bahu.

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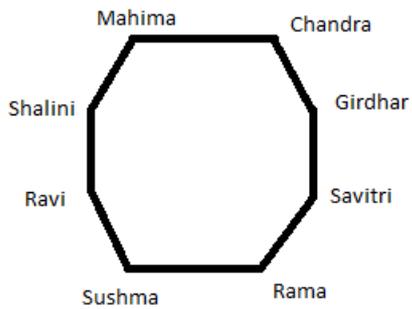
Question 2

A group of friends are sitting in an arrangement one each at the corner of an octagon. All are facing the centre. Mahima is sitting diagonally opposite Rama, who is on Sushma's right. Ravi is next to Sushma and opposite Girdhar, who is on Chandra's left. Savitri is not on Mahima's right but opposite Shalini. Who is on Shalini's right?

- A Ravi
- B Mahima
- C Girdhar
- D Rama

Answer: A

Explanation:



It is clear from the above diagram that ravi is present at right of shalini.

Question 3

A cube has the following figures drawn on its five faces. The top surface is blank. The ellipse is between the cross and the triangle. The square is on the right of the triangle. The ellipse and the square are opposite to each other. Which face is the circle on?

- A On the top
- B Opposite to ellipse
- C Opposite to triangle
- D At the bottom

Answer: D

Explanation:

As top surface is blank and all side faces have diagrams, So only bottom place remains with circle.

Instructions

Directions: In each of the following questions, select the related word/letters/ number/ figure from the given alternatives.

Question 4

Fox:Cunning::Rabbit:?

- A Courageous
- B Dangerous
- C Timid
- D Ferocious

Answer: C

Explanation:

Fox is cunning
And rabbit is timid.

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Question 5

Flexible:Rigid::Confidence:?

- A Diffidence
- B Indifference
- C Cowardice
- D :Confidenc

Answer: A

Explanation:

Rigid is antonym of flexible hence missing set will be antonym of confidence i.e. diffidence

Question 6

AZCX:BYDW::HQJO:?

- A GRFP
- B IPKM
- C IPKN
- D GRJP

Answer: C

Explanation:

Given proportion follows a pattern where last letter is 1 back from last letter of its previous set of alphabets. Hence last letter of missing set will be N

Question 7

QIOK:MMKO::YAWC:?

- A USGA
- B UESG
- C VUES
- D SUEG

Answer: B

Explanation:

First letter of second set is 3 letters back from first letter of first set.
And second letter of second set is 3 letters ahead from the second letter of first set.
This pattern is followed by option B only.

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Question 8

ABC/F:BCD/I::CDE/L:?

- A DEF/O
- B DEF/N
- C EDF/O
- D DEF/M

Answer: A

Explanation:

Given set of proportions follows a pattern which is described below.

$$ABC/F = ABC(DEF)$$

$$BCD/I = BCD(EFGH)I$$

$$CDE/L = CDE(FGHIJK)L$$

Hence next will be:

$$DEF/O = DEF(GHIJKLMN)O$$

Question 9

1:8::27:?

A 37

B 47

C 57

D 64

Answer: D

Explanation:

$$1^3 : 2^3 :: 3^3 : 4^3$$

Question 10

24:126::48:?

A 433

B 192

C 240

D 344

Answer: D

Explanation:

Expression : 24:126::48:?

The pattern followed above is = $n^2 - 1 : n^3 + 1$

$$\Rightarrow 24 : 126 = 5^2 - 1 : 5^3 + 1$$

Similarly, $48 = 7^2 - 1$

$$\Rightarrow 7^3 + 1 = 343 + 1 = 344$$

\Rightarrow Ans - (D)

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Question 11

987:IHG::654:?

A FDE

B FED

C EFD

D DEF

Answer: B

Explanation:

In given question, first proportion follow a rule where letters are in alphabetical order from reverse side. Only option B follows this rule

Instructions

Directions: In each of the following questions find the odd word/letters/number/figure from the given responses.

Question 12

A Room

B Chamber

C Veranda

D Cabin

Answer: C

Explanation:

Option A, B and D are closed rooms whether in option C verandah is in open air. Hence odd one will be C.

Question 13

A Mouth Organ

B Electric Guitar

C Keyboard

D Sonata

Answer: D

Explanation:

Option A, B and C are music instruments but option D is a name of watch brand. Hence odd one will be option D.

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Question 14

A A

B 1

C D

D E

Answer: B

Explanation:

Option B is number whether remaining are alphabets. Hence odd one will be B.

Question 15

- A RNMP
- B JFEH
- C RPOQ
- D HDCF

Answer: C

Explanation:

Option A,B and D follows a pattern but not C.
According to pattern option C should be TPOR but given is RPOQ
hence answer will be C

Question 16

- A AbcdE
- B IfghO
- C ApqrL
- D UlmnE

Answer: C

Explanation:

In option C, in place of pqr there should be ijk.

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Question 17

- A 6243
- B 2643
- C 8465
- D 4867

Answer: D

Explanation:

In option A and B first two digits are reversed and last two digits remains same.
But in C and D, first two digits are reversed but last two digits were not remain same.
Hence answer will be D.

Question 18

- A 49 - 33
- B 62 - 46
- C 83 - 67
- D 70 - 55

Answer: D

Explanation:

In options A , B and C numbers have a difference of 16 but not in D

hence answer will be D

Instructions

For the following questions answer them individually

Question 19

From amongst the given alternatives, select the one in which the set of numbers is most like the set of numbers given below: (6, 14,30)

- A 4, 16, 28
- B 7, 12, 22
- C 6, 12, 22
- D 5, 12, 20

Answer: B

Explanation:

$$14 = 6+8$$

$$30 = 14+8*2$$

Among all option only B) follows this pattern as

$$12 = 7+5$$

$$22=12+5*2$$

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Question 20

Which one of the given responses would be a meaningful order of the following words ?

A. Family B. Community C. Member D. Locality E. Country

- A C, A, D, B, E
- B C, A, B, D, E
- C C, A, B, E, D
- D C, A, D, E, B

Answer: B

Explanation:

Order will be:

C. Member

A. Family

B. Community

D. Locality

E. Country

Question 21

Arrange the following words according to the dictionary:

A. TORTOISE B. TORONTO C. TORPED D. TORUS E. TORSEL

- A B, E, C, A, D
- B B, E, C, D, A
- C B, C, E, A, D

D B, C, E, D, A

Answer: C

Explanation:

Order according to dictionary will be

B. TORONTO

C. TORPED

E. TORSEL

A. TORTOISE

D. TORUS

Question 22

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

_a_aaba_ _ba_ab_

A abaaaa

B abaaba

C aababa

D ababaa

Answer: A

Explanation:

After applying option A, given question acquires a pattern as:

aaba aaba aaba aaba

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Instructions

Directions: In each of the following questions, find the missing number /letters/figure from the given responses:

Question 23

a, r, c, s, e, t, g, __, __,

A x, z

B u, i

C w, y

D v, b

Answer: B

Explanation:

letters at odd places are 2 ahead in alphabetical order with their previous odd position letter.

But at even places it is just next letter from the previous even position letter.

Hence answer will be B

Question 24

(?), PSVYB, EHKNQ, TWZCF, ILORU

A B, E, H, K, N

B A, D, G, J, M

C S, V, Y, B, E

D Z, C, F, I, L

Answer: B

Explanation:

Given set of words follow a rule where first letter of next set is 2 ahead of last letter of its previous set. Hence last letter of missing set will 2 before P i.e. M and answer will be B)

Question 25

0, 4, 18, 48, ?, 180

A 58

B 68

C 84

D 100

Answer: D

Explanation:

$$0 + 4 = 4$$

$$4 + (4+10) = 18$$

$$18 + (4+10+16) = 48$$

$$48 + (4+10+16+22) = 100$$

$$100 + (4+10+16+22+28) = 180$$

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Question 26

36, 28, 24, 22, ?

A 18

B 19

C 21

D 22

Answer: C

Explanation:

$$36 - 8 = 28$$

$$28 - \overset{8}{2} = 24$$

$$24 - \overset{4}{2} = 22$$

Hence

$$22 - \overset{2}{2} = 21$$

Question 27

7, 9, 1.3, 21, 37, ?

A 58

B 63

C 69

D 72

Answer: C

Explanation:

$$7+2=9$$

$$9+2*2=13$$

$$13+2*4=21$$

$$21+2*8=37$$

$$37+2*16=69$$

Instructions

For the following questions answer them individually

Question 28

Select the number which does NOT belong to the given series
232, 343, 454, 564, 676

A 676

B 454

C 343

D 564

Answer: D

Explanation:

It is clear that in given series 1st digit of number is equal to last digit of number.
Hence 564 is the odd number in series.

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Question 29

A bus left with some definite number of passengers. At the first stop, half the passengers left the bus and 35 boarded the bus. At the second stop $\frac{1}{5}$ th of the passengers left and 40 boarded the bus. Then, the bus moved with 80 passengers towards its destination without stopping anywhere. How many passengers were there originally ?

A 25

B 30

C 40

D 50

Answer: B

Explanation:

Let's say there were x passengers initially,

So after first stop there will be $\frac{x}{2} + 35$ passengers left in bus.

and after second stop, it will be $(\frac{x}{2} + 35) \times \frac{4}{5} + 40 = 80$

Hence x will be = 30

Question 30

If the day, after tomorrow is Sunday, what day was tomorrow's day before yesterday ?

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

Answer: B

Explanation:

As day after tomorrow is Sunday, today will be Friday and yesterday will be Thursday.

Question 31

A man is 3 years older than his wife and four times as old as his son. If the son becomes 15 years old after 3 years, what is the present age of the wife ?

- A 60 years
- B 51 years
- C 48 years
- D 45 years

Answer: D

Explanation:

Son's age will be 12 years

So his father's age will be 48 and wife's age will be 45 years.

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Question 32

X and Y are brothers. R is the father of Y. S is the brother of T and maternal uncle of X. What is T to R?

- A Mother
- B Wife
- C Sister
- D Brother

Answer: B

Explanation:

As S is maternal uncle of X

R is father of X and Y (since X and Y are brothers)

S is brother of T.

Hence T will be wife of R

Question 33

Suresh is 7 ranks ahead of Ashok in the class of 39 students. If Ashok's rank is 17th from the last, what is Suresh's rank from the start?

- A 16th
- B 23th

C 24th

D 15th

Answer: A

Explanation:

17th from last will be 23rd from starting when total students are 39.
And suresh is 7 rank ahead of ashok hence his rank will be 16th.

Question 34

A word/set of letters given in capital letters is followed by four answer words. Out of these only one cannot be formed by using the letters of the given word/set of letters. Find out that word INDETERMINATE

A DETERMINE

B RETINUE

C REMINDER

D RETINA

Answer: B

Explanation:

Only B option has a letter U which is not present in INDETERMINATIVE
hence option B will be answer

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Question 35

A group of alphabets are given with each being assigned a numerical code. These have to be unscrambled into a meaningful word and the correct code so obtained may be indicated from the given responses ?

R A H K S 1 2 3 4 5

A 51234

B 54213

C 53214

D 53124

Answer: C

Explanation:

Only 53214 is making a meaningful word as:
S H A R K

Question 36

A statement is given followed by two assumptions, a and b . You have to consider the statement to be true, even if it seems to be at variance from commonly known facts. You are to decide which of the given assumptions can definitely be drawn from the given statement. Indicate your answer.

Statement:Theoretical education does not bring in economic advancement and it lends to a steady loss of confidence and money in the country.

Assumptions:

- 1 There is close relationship between development of confidence and economic development.
- 2 Theoretical education makes priceless contribution for development of confidence.

- A Only 1 is implicit
- B Only 2 is implicit
- C Both 1 and 2 are implicit
- D Both 1 and 2 are not implicit

Answer: D

Explanation:

Both assumptions do not follow statement as according to statement, there is no close relationship between confidence development and economic development. And in second assumption, theoretical education leads to a steady loss of confidence not increment in confidence.

Question 37

Two statements are given followed by four conclusions, I, II, III and IV. You have to consider the statements to be true, even if they seem to be at variance from commonly known facts. You are to decide which of the given conclusions can definitely be drawn from the given statements. Indicate your answer.

Statements:

a: No cow is a chair.

b: All chairs are tables.

Conclusions:

I. Some tables are chairs.

II. Some tables are cows.

III. Some chairs are cows.

IV. No table is a cow

- A No cow is a chair.
- B All chairs are tables. Conclusions: I. Some tables are chairs. II. Some tables are cows. III. Some chairs are cows. IV. No table is a cow Topics: SSC Reasoning a: Either II or III follow b: Either II or IV follow
- C Only I follows
- D All conclusions follow

Answer: C

Explanation:

Among all given conclusions only 1st conclusion follows the statement with certainty, remaining conclusions are not certain, taking statements into consideration.

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Question 38

If HONESTY is written as 5132468 and POVERTY as 7192068, how is HORSE written in a certain code?

- A 50124
- B 51042
- C 51024
- D 52014

Answer: B

Explanation:

Letters of HORSE can be taken from letters of words HONESTY and POVERTY.
As H-5

O-1
R-0
S-4
E-2

So code will be 51042

Question 39

In a certain code SISTER is written as RHRSDQ. How is UNCLE written in that code?

- A TMBKD
- B TBMKD
- C TVBOD
- D TMKBD

Answer: A

Explanation:

Each letter in the encoded form should be the previous alphabet of the letter in the uncoded form. So, U → T, N → M, C → B and so on. The answer is TMBKD

Question 40

If $841 = 3$, $633 = 5$, $425 = 7$ then $217 = ?$

- A 6
- B 7
- C 8
- D 9

Answer: D

Explanation:

$$841 = 8 \div 4 + 1 = 3$$
$$633 = 6 \div 3 + 3 = 5$$
$$425 = 4 \div 2 + 5 = 7$$
$$217 = 2 \div 1 + 7 = 9$$

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Question 41

The following equations follow a common property. Find out the correct value to complete D:A=51(714)14:B = 61 (915) 15; C = 71 (1136) 16:D = 81 (?) 17

- A (1377)
- B (1378)
- C (1356)
- D (1346)

Answer: A

Explanation:

As it is clear from the given equations that middle number is product of it right and left numbers. Hence missing number will be = $81 \times 17 = 1377$

Question 42

After interchanging \div and $=$, 2 and 3 which one of the following statements becomes correct ?

- A $15 = 2 = 3$
- B $5 \div 15 = 2$
- C $2 = 15 \div 3$
- D $3 = 2 \div 15$
- E None of these

Answer: B

Explanation:

After interchanging the signs and numbers, the equation in option b) becomes $5 = 15 / 3$, which is correct. So, b) is the correct answer.

Question 43

$25 * 2 * 6 = 4 * 11 * 0$ Which set of symbols can replace * ?

- A $\times, -, \times, +$
- B $+, -, \times, +$
- C $\times, +, \times, -$
- D $\times, +, +, \times$
- E None of these

Answer: A

Explanation:

$$25 \times 2 - 6 = 44$$

$$4 \times 11 + 0 = 44$$

So, the required set of symbols is $\times, -, \times, +$

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Question 44

Find the missing number from the given responses

16, 12, 9, 7, ?

- A 4

- B 5
- C 3
- D 6
- E None of these

Answer: D

Explanation:

The pattern followed is :

$$16 - 4 = 12$$

$$12 - 3 = 9$$

$$9 - 2 = 7$$

$$7 - 1 = 6$$

=> Ans - (D)

Question 45

Peter walked 8 kms. west and turned right and walked 3 kms. The again he turned right and walked 12 kms. How far is he from the starting point ?

- A 7
- B 8
- C 4
- D 5
- E None of these

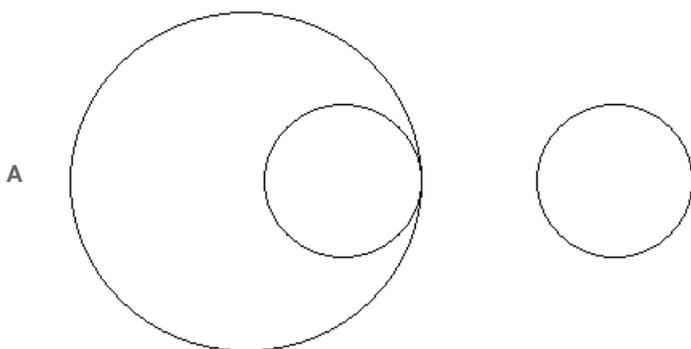
Answer: D

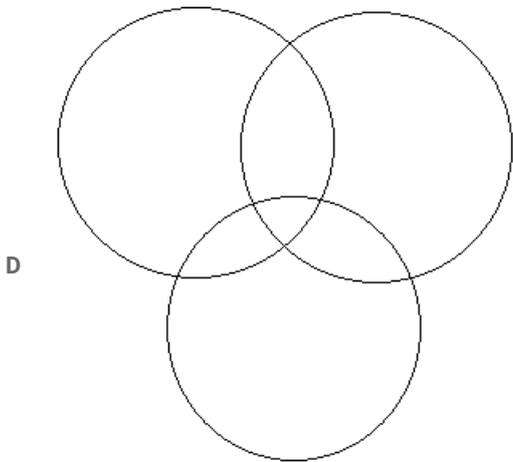
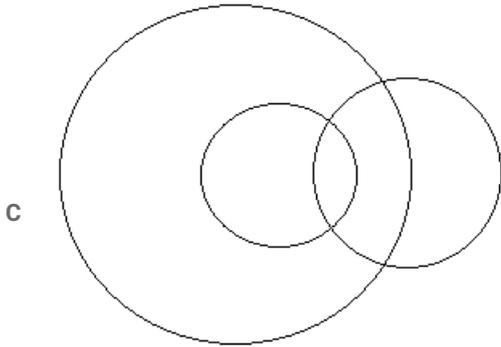
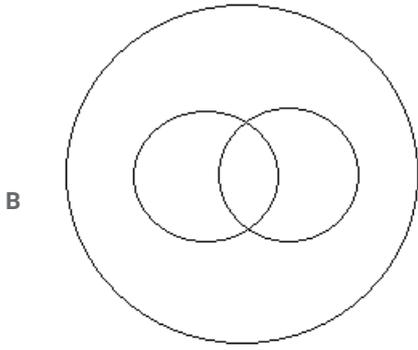
Explanation:

Peter's final position is 3 km north and 4 km east. So, the distance of this point from the starting point is $\sqrt{3^2 + 4^2} = 5$ km

Question 46

Choose the correct figure that represents the given relation: Blue eyed, females, doctors





E None of these

Answer: D

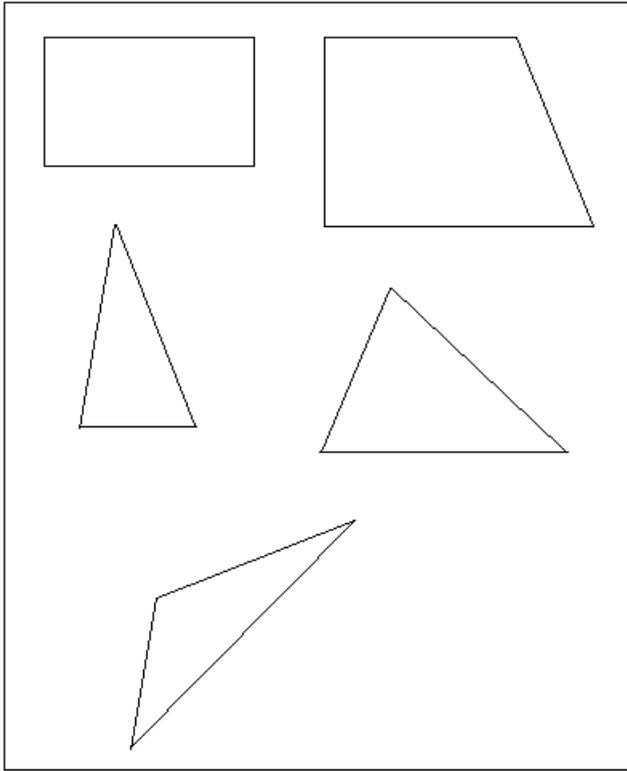
Explanation:

Blue-eyed people can be male or female. Females can be blue-eyed or non-blue-eyed. Similarly, doctors can be male or female and blue-eyed or non-blue-eyed. So, the best venn diagram that captures all these possibilities is option d).

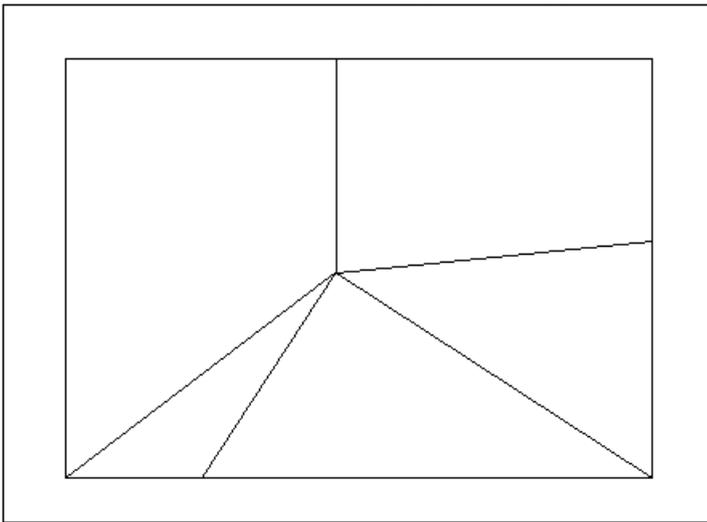
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Question 47

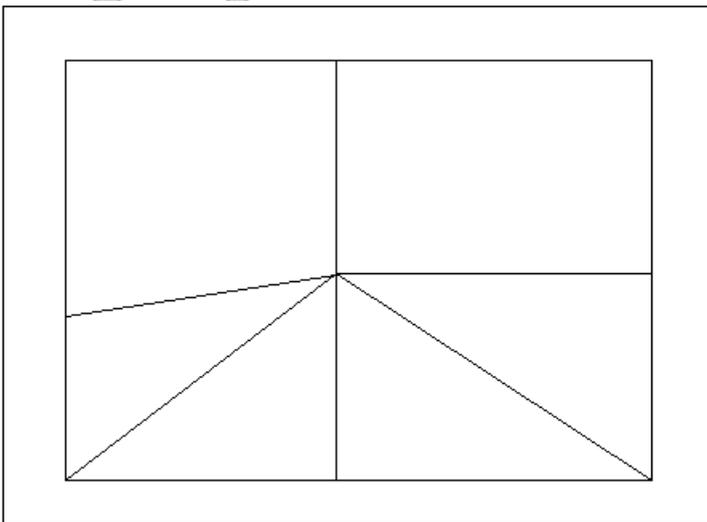
Among the four answer figures, which figure can be formed from the cutpieces given below in the question figure ?



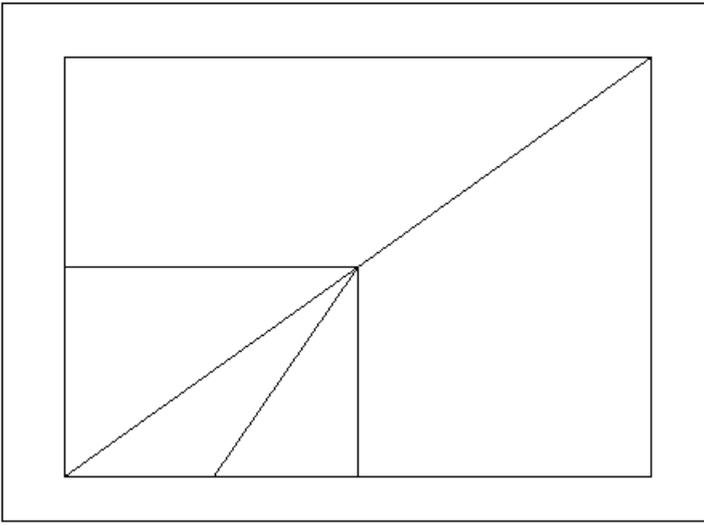
A



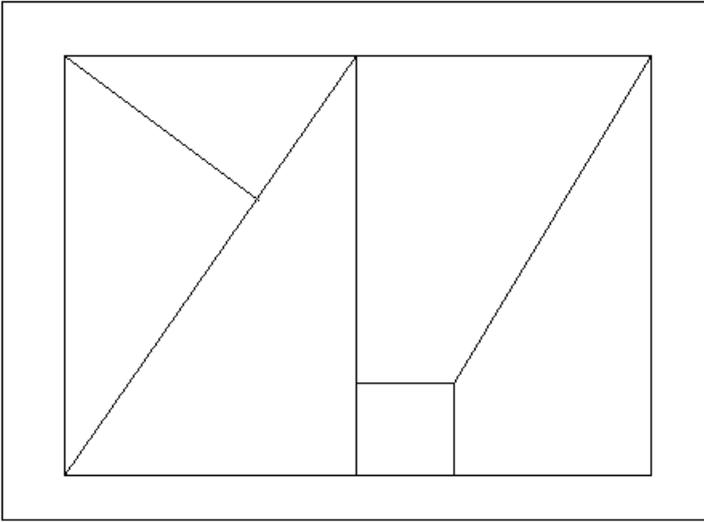
B



C



D



E None of these

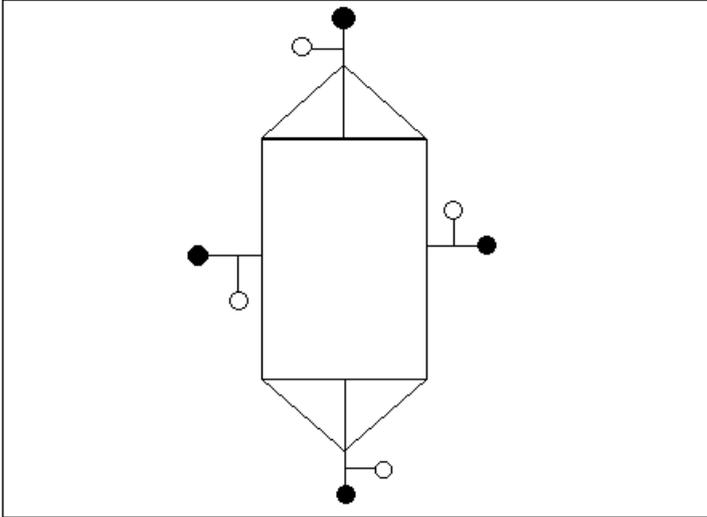
Answer: A

Explanation:

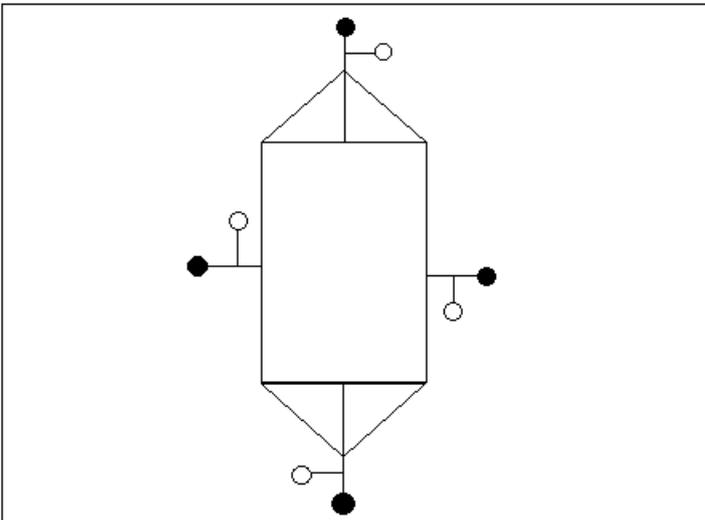
Given figures in questions have 3 triangles , 1 trapezium and 1 rectangle.
Only option having these three figures is option A.

Question 48

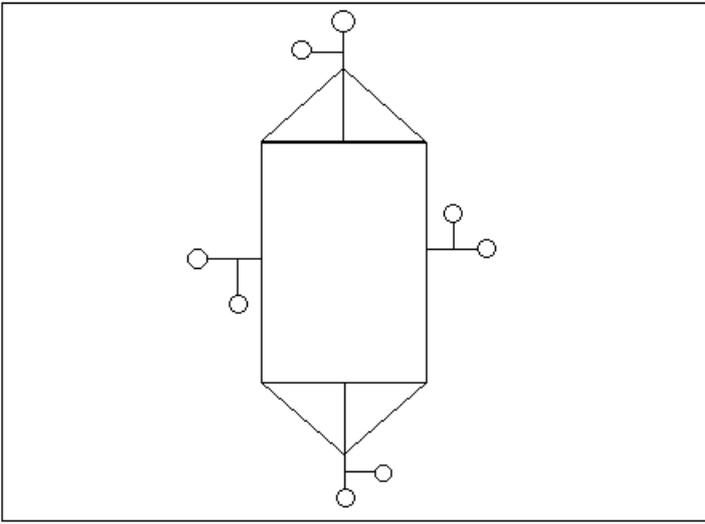
If the mirror is placed on the line LM, then which of the answer figures is the right image of the given question figure ?



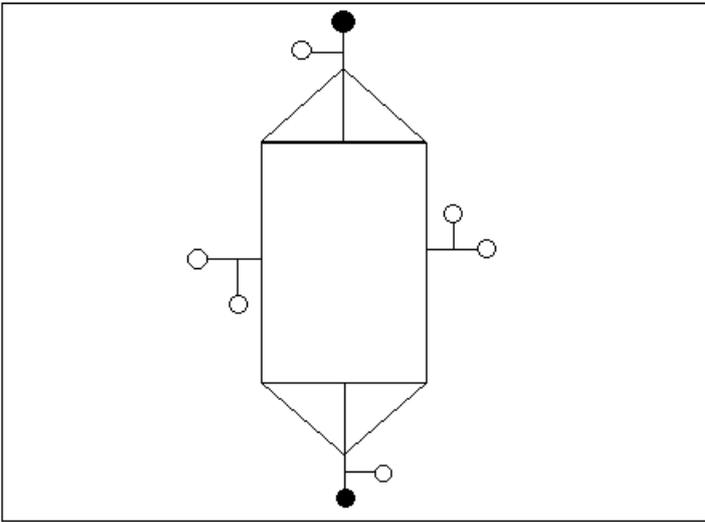
A



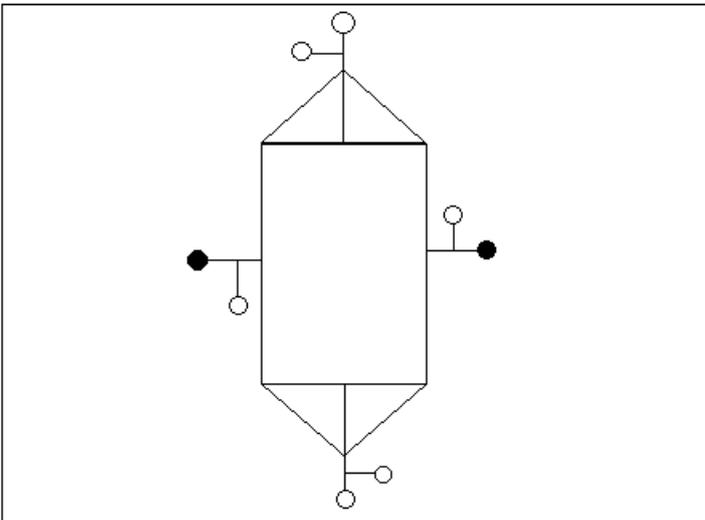
B



C



D



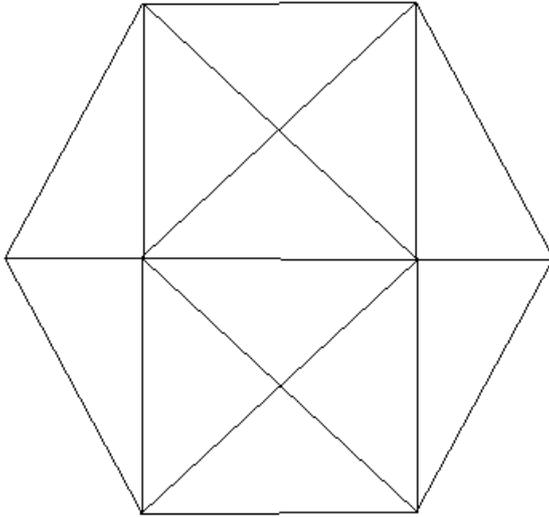
Answer: A

Explanation:

As all points in right side appear on left in mirror and vice versa.
And all points remain at equal distance from mirror on both sides
So answer will be A.

Question 49

How many triangles are there in the following figure ?



A 20

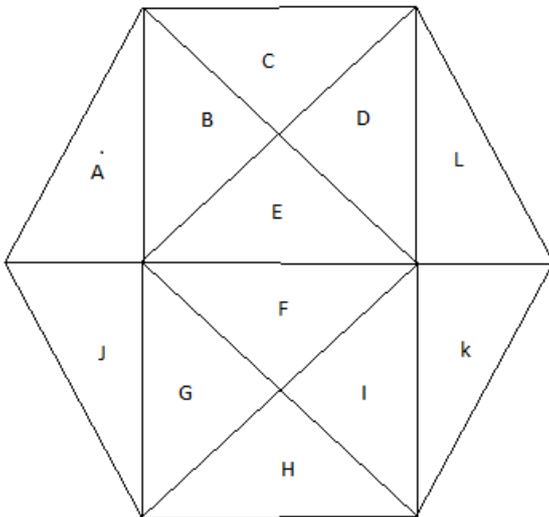
B 24

C 28

D 32

Answer: C

Explanation:



Triangles are:

Containing no triangle: A,B,C,D,E,F,G,H,I,J,K,L = 12

Containing 2 triangle: BE,DE,BC,CD,GH,HI,GE,FI,AJ,LK = 10

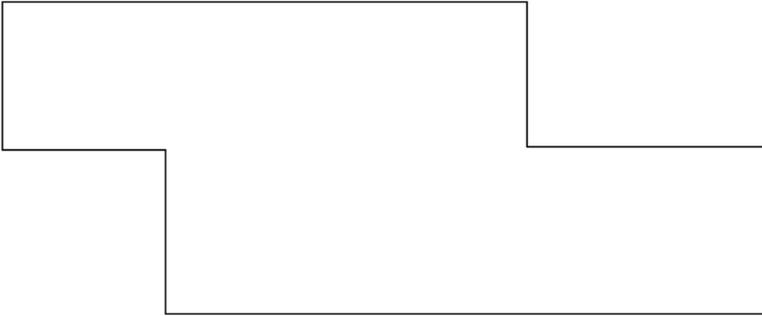
Containing 3 triangle: ABE, GJF, LDE, KIE

Containing 4 triangle : BEFG, DEFI

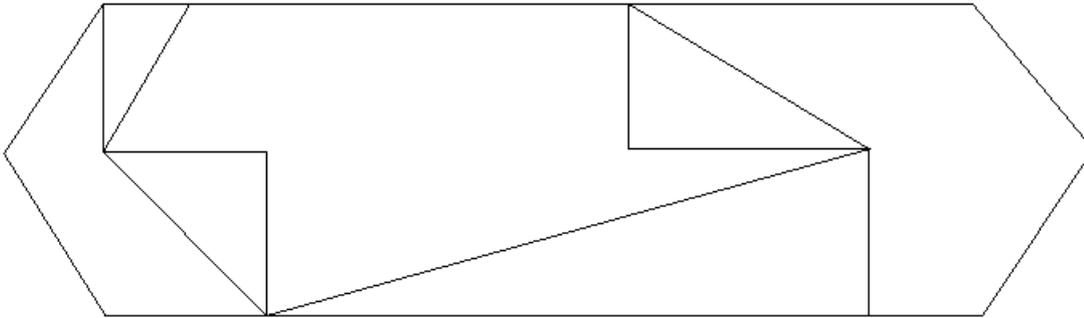
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Question 50

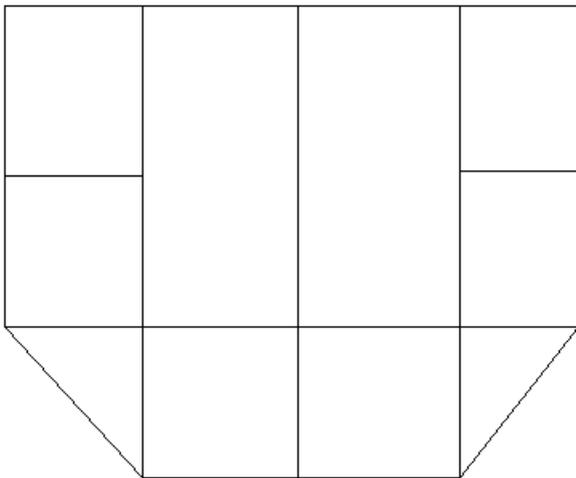
From the given answer figures, select the one in which the question figure is hidden/embedded.



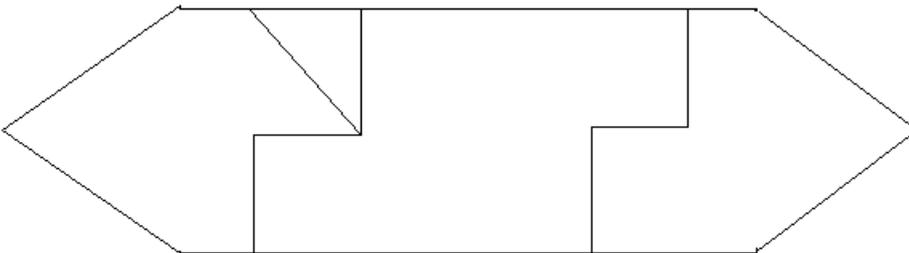
A

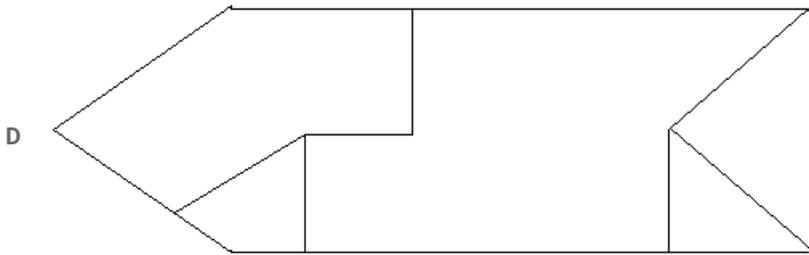


B



C





Answer: A

Explanation:

Among all options, in option A only diagram is embedded in between.

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General Awareness

Instructions

For the following questions answer them individually

Question 51

Which of the following Indonesian regions was a victim of massive earthquake in 2004?

- A Irian Jaya
- B Sumatra
- C Kalibangan
- D Java

Answer: B

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Question 52

The first non-stop air-conditioned 'DURANTO' train was flagged off between

- A Sealdah - New Delhi
- B Mumbai - Howrah
- C Bangalore - Howrah
- D Chennai - New Delhi

Answer: A

Question 53

Which among the following agencies released the report, Economic Outlook for 2009-10 ?

- A Planning Commission
- B PM's Economic Advisory Council
- C Finance Commission

D Reserve Bank of India

Answer: B

Question 54

India and U.S. have decided to finalise agreements related to which of the following?

A Trade and Investment

B Intellectual Property

C Traditional Knowledge

D All of the above

Answer: D

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Question 55

Which one of the following states does not form part of Narmada River basin?

A Madhya Pradesh

B Rajasthan

C Gujarat

D Maharashtra

Answer: B

Question 56

Which of the following countries has recently become the third largest market for Twitter?

A China

B India

C Brazil

D Indonesia

Answer: B

Question 57

The exchange of commodities between two countries is referred as

A Balance of trade

B Bilateral trade

C Volume of trade

D Multilateral trade

Answer: C

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Question 58

Soil erosion on hill slopes can be checked by which process?

- A Afforestation
- B Terrace cultivation
- C Strip crop
- D Contour ploughing

Answer: B

Question 59

Who coined the word 'Geography'?

- A Ptolemy
- B Eratosthenese
- C Hacataus
- D Herodatus

Answer: B

Question 60

Which of the following is called the 'ecological hot spot of India'?

- A Western Ghats
- B Eastern Ghals
- C Western Himalayas
- D Eastern Himalayas

Answer: A

General Science Notes for SSC CGL

Question 61

The art and science of map making is called

- A Remote Sensing
- B Cartography
- C Photogrammetry
- D Mapping

Answer: B

Question 62

The age of the Earth can be determined by

- A Geological Time Scale
- B Radio-Metric Dating
- C Gravity method
- D Fossilization method

Answer: B

Question 63

The monk who influenced Ashoka to embrace Buddhism was

- A Vishnu Gupta
- B Upa Gupta
- C Brahma Gupta
- D Brihadratha

Answer: B

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Question 64

The declaration that Democracy is a Government 'of the people, by the people; for the people' was made by

- A George Washington
- B Winston Churchill
- C Abraham Lincoln
- D Theodore Roosevelt

Answer: C

Question 65

The Lodi dynasty was founded by

- A Ibrahim Lodi
- B Sikandar Lodi
- C Bahlul Khan Lodi
- D Khizr Khan

Answer: C

Question 66

Harshvardhana was defeated by which ruler that led to the end of the Pushyabhuti dynasty?

- A Prabhakaravardhana
- B Pulakesin II
- C Narasimhasvarma Pallava
- D Sasanka

Answer: B

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Question 67

Which emperor was an illiterate?

- A Jahangir
- B Shah Jahan
- C Akbar
- D Aurangzeb

Answer: C

Question 68

Which Governor General is associated with Doctrine of Lapse?

- A Lord Ripon
- B Lord Dalhousie
- C Lord Bentinck
- D Lord Curzon

Answer: B

Question 69

India attained 'Dominion Status' on

- A 15th January, 1947
- B 15th August, 1947
- C 15th August, 1950
- D 15th October, 1947

Answer: B

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Question 70

Despotism is possible in a

- A One party state
- B Two party state
- C Multi Party state
- D Two and multi party state

Answer: A

Question 71

Marx belonged to which country?

- A Germany
- B Holland
- C France
- D Britain

Answer: A

Question 72

Which is the guardian of Fundamental Rights?

- A Legislature
- B Executive
- C Political parties
- D Judiciary

Answer: D

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Question 73

Sarkaria Commission was concerned with

- A Administrative Reforms
- B Electoral Reforms
- C Financial Reforms
- D Centre-State relations

Answer: D

Question 74

The Speaker of the Lok-Sabha has to address his/her letter of resignation to

- A Prime Minister of India
- B President of India

- C Deputy Speaker of Lok Sabha
- D Minister of Parliamentary Affairs

Answer: C

Question 75

A want becomes a demand only when it is backed by the

- A Ability to purchase
- B Necessity to buy
- C Desire to buy
- D Utility of the product

Answer: A

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Question 76

The terms 'Micro Economics' and 'Macro Economics' were coined by

- A Alfred Marshall
- B Ragner Nurkse
- C Ragner Frisch
- D J.M. Keynes

Answer: C

Question 77

During periods of inflation, tax rates should

- A increase
- B decrease
- C remain constant
- D fluctuate

Answer: A

Question 78

Which is the biggest tax paying sector in India?

- A Agriculture sector
- B Industrial sector
- C Transport sector
- D Banking sector

Answer: B

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Question 79

'Economics is what it ought to be' - This statement refers to

- A Normative economics
- B positive economics
- C Monetary economics
- D Fiscal economics

Answer: A

Question 80

The excess of price a person is to pay rather than forego the consumption of the commodity is called

- A Price
- B Profit
- C Producers' surplus
- D Consumer's surplus

Answer: C

Question 81

Silver halides are used in photographic plates because they are

- A oxidised in air
- B soluble in hyposolution
- C reduced by light
- D totally colourless

Answer: C

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Question 82

Tetra ethyle lead (TEL) is used as

- A a catalyst in burning fossil fuel
- B an antioxidant
- C a reductant
- D an antiknock compound

Answer: D

Question 83

Curie point is the temperature at which

- A Matter becomes radioactive
- B A metal loses its permanent magnetic properties.
- C A metal loses conductivity
- D Transmutation of metal occurs.

Answer: B

Question 84

The isotope used for the production of atomic energy is

- A U-235
- B U-238
- C U-234
- D U-236

Answer: A

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Question 85

The acceleration due to gravity at the equator

- A is less than that at the poles
- B is greater than that at the poles
- C is equal to that at the poles
- D does not depend on the earth's centripetal acceleration

Answer: A

Question 86

Which of the following is not a nucleon?

- A Proton
- B Neutron
- C Electron
- D Positron

Answer: C

Question 87

The material used in the manufacture of lead pencil is

- A Graphite
- B Lead
- C Carbon
- D Mica

Answer: A

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Question 88

Angle of friction and angle of repose are

- A equal to each other
- B not equal to each other
- C proportional to each other
- D None of the above

Answer: A

Question 89

Processor's speed of a computer is measured in

- A BPS
- B MIPS
- C Baud
- D Hertz

Answer: B

Question 90

'C' language is a

- A Low level language
- B High level language
- C Machine level language
- D Assembly level language

Answer: B

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Question 91

What happens to a person who receives the wrong type of blood?

- A All the arteries constrict
- B All the arteries dialates
- C The RBCs agglutinate
- D The spleen and lymphnodes deteriorate

Answer: C

Question 92

NIC stands for

- A National Infectious diseases Centre
- B National Irrigation Centre
- C National Immunisation Centre
- D National Informatics Centre

Answer: D

Question 93

If all bullets could not be removed from gun shot injury of a man, it may cause poisoning by

- A Mercury
- B Lead
- C Iron
- D Arsenic

Answer: B

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Question 94

Ringworm is a....disease.

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

Answer: D

Question 95

Pituitary gland is situated in

- A the base of the heart
- B the base of the brain

- C the neck
- D the abdomen

Answer: B

Question 96

Who discovered cement?

- A Agassit
- B Albertus Magnus
- C Joseph Aspdin
- D Janseen

Answer: C

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Question 97

According to RBRs Report on the trend and progress of banking, the Non-performing Assets (NPA's) in India for 2008-09 for Indian Banks in 2008 have stood at

- A 2.3 per cent
- B 2.6 per cent
- C 3.5 per cent
- D 5.2 per cent

Answer: A

Question 98

Windows 7, the latest operating system from Microsoft Corporation has __ Indian languages fonts.

- A 14
- B 26
- C 37
- D 49

Answer: D

Question 99

TRIPS and TRIMS are the terms associated with

- A IMF
- B WTO
- C IBRD
- D IDA

Answer: B

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Question 100

A Presidential Ordinance can remain in force for how many months?

- A For three months
- B For six months
- C For nine months
- D Indefinitely

Answer: B

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Quant

Instructions

For the following questions answer them individually

Question 101

In how many years will a sum of Rs. 800 at 10% per annum compound interest, compounded semiannually becomes Rs. 926.10 ?

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

Answer: A

Explanation:

When we are compounding it semiannually its rate becomes 5% and number of years will $2n$ so for compound interest:

$$926.10 = 800 \times \left(1 + \frac{10}{100}\right)^{2n}$$

solve for n.

General Science Notes for SSC CGL

Question 102

In a 100m race, Kamal defeats Bimal by 5 seconds. If the speed of Kamal is 18 Kmph, then the speed of Bimal is

- A 15.4 kmph
- B 14.5,kmph
- C 14.4 kmph
- D 14 kmph

Answer: C

Explanation:

As we know distance is constant for vimal and kamal and that is equal to 100 m.

$$\text{hence } V_{bimal} \times t_{bimal} = 100$$

$$\text{or } V_{bimal} \times (t_{kamal} + 5) = 100$$

where t_{kamal} will be $\frac{\text{Distance}}{V_{kamal}}$ i.e. $\frac{100m}{18kmph}$

$$\text{so } V_{bimal} \times \left(\frac{100m}{18kmph} + 5\right) = 100$$

After solving above equation we will get $V_{bimal} = 4 \frac{m}{s}$ or 14.4 kmph

Question 103

A train, 240 m long crosses a man walking along the line in opposite direction at the rate of 3 kmph in 10 seconds. The speed of the train is

- A 63 kmph
- B 75 kmph
- C 83.4 kmph
- D 86.4 kmph

Answer: C

Explanation:

As man and train are coming to each other

and we assume speed of train = x

hence its relative speed will be $(x + 3)$

relative distance travelled = 240m = .24 km

time taken = 10 sec. = $\frac{10}{3600}$ hr

$$\text{so } (x + 3) = \frac{.24}{\frac{10}{3600}}$$

solving the eq. we will x equals to 83.4 kmph

Question 104

A boatman rows 1 km in 5 minutes, along the stream and 6 km in 1 hour against the stream. The speed of the stream is

- A 3 kmph
- B 6 kmph
- C 10 kmph
- D 12 kmph

Answer: A

Explanation:

let's say velocity of stream is v_s and velocity of boat is v_b

$$\text{so along the stream } v_s + v_b = \frac{1km.}{5hr}$$

$$\text{and opposite to river } v_s - v_b = \frac{6km.}{1hr}$$

solving above eq. we get $v_s = 3kmph$

Question 105

A can complete $\frac{1}{3}$ of a work in 5 days and B, $\frac{2}{5}$ of the work in 10 days. In how many days both A and B together can complete the work ?

A 10

B $\frac{3}{98}$

C $\frac{4}{85}$

D $\frac{1}{72}$

Answer: B

Explanation:

A does $\frac{1}{3}$ of work in 5 days

hence in 1 day it will do $\frac{1}{15}$ amount of work

similarly B will do $\frac{2}{50}$ amount of work in one day

Together they will do $\frac{1}{15} + \frac{2}{50} = \frac{16}{150}$ amount of work in one day

hence unit work will be done in $\frac{150}{16}$ days or $9\frac{3}{8}$ days

Question 106

7 men can complete a piece of work in 12 days. How many additional men will be required to complete double the work in 8 days ?

A 28

B 21

C 14

D 7

Answer: C

Explanation:

In 12 days unit work is done by 7 men

hence in 1 day $\frac{1}{12}$ amount of work is done by 7 men

so 1 man does $\frac{1}{12 \times 7}$ amount of work in one day.

we have to find no of man to do double the work in 8 days with above efficiency

let's say we have x men

now total work done in single day will be $\frac{1}{12 \times 7} \times x$

hence in 8 days = $\frac{1}{12 \times 7} \times 8x = 2$ (as work is doubled)

$x = 21$

additional man required = 14

Question 107

One pipe fills a water tank three times faster than another pipe. If the two pipes together can fill the empty tank in 36 minutes, then how much time will the slower pipe alone take to fill the tank ?

A 1 hour 21 minutes

B 1 hour 48 minutes

C 2 hours

D 2 hour 24 minutes

Answer: D

Explanation:

let's say slower pipe fills tank in x min. so in 1 min. it fills $\frac{1}{x}$

and faster one will fill in $\frac{x}{3}$ min. so in 1 min. it fills $\frac{3}{x}$

together in 1 min. they will fill $(\frac{1}{x} + \frac{3}{x})$ of tank

as it is given that together they will fill the tank in 36 min.

so

$$(\frac{1}{x} + \frac{3}{x}) \times 36 = 1$$

or $x = 144$ min.

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Question 108

In an examination, a student scores 4 marks for every correct answer and loses 1 mark for every wrong answer. A student attempted 200 questions and scored, in all, 200 marks. The number of questions, he answered correctly was

A 82

B 80

C 68

D 60

Answer: B

Explanation:

let's say student attempt x correct questions

hence total marks will be $x \times 4 + ((200 - x) \times (-1)) = 200$

$x = 80$

Question 109

The average of odd numbers upto 100 is

A 50.5

B 50

C 49.5

D 49

Answer: B

Explanation:

Require sum of $1+3+5+7+9\dots99$

Applying formula for summation of n digits with a as first digit and d is the difference

$$\text{sum} = \frac{n}{2}(2a + (n - 1)d)$$

or this formula can be reduced to $\frac{n}{2} \frac{a+l}{2}$ hence for calculating avg. it will be

$$\frac{a+l}{2} \text{ (where } l \text{ is last term)}$$

$$\text{so } \frac{1+99}{2} = 50$$

Question 110

If A's income is 25% less than B's income, by how much per cent is B's income more than that of A ?

- A 25
- B 30
- C 100/3
- D 50

Answer: C

Explanation:

let's say B's income is 100

A's income will be 75

B's income is 25 greater than A's

hence B's income is $\frac{25}{75} \times 100$ percent more than A's

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Question 111

$(1^2 + 2^2 + 3^2 + \dots + 10^2)$ is equal to

- A 380
- B 385
- C 390
- D 392

Answer: B

Explanation:

Sum of squares of first n natural numbers is:

$$\frac{n \times (n+1) \times (2n+1)}{6}$$

put n=10

Question 112

The sixth term of the sequence 2, 6, 11, 17 is

- A 24
- B 30
- C 32
- D 36

Answer: C

Explanation:

As we can see there difference of the sequence is in arithmetic progression of difference 1

Second term = first term + 4

Third term = second term + 5

Fourth term = third term + 6

nth term = (n-1)th term + $(4 + (n-1) \times 1)$

Adding above equation we get

nth term = first term + $(4+5+6+\dots+(3+(n-1)))$

hence 6th term will be 32.

Question 113

Two numbers are in the ratio 7:11. If 7 is added to each of the numbers, the ratio becomes 2:3. The smaller number is

- A 39
- B 49
- C 66
- D 77

Answer: B

Explanation:

Let's say numbers are $7x$ and $11x$
adding 7 to each of them

$$\text{hence } \frac{7x+7}{11x+7} = \frac{2}{3}$$

$$\text{or } x = 7$$

smaller digit will be 49

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Question 114

$(1 - \frac{1}{3})(1 - \frac{1}{4})(1 - \frac{1}{5}) \dots \dots \dots$ upto $(1 - \frac{1}{25})$ is equal to

- A 2/25
- B 1/25
- C 2/125
- D 1/325

Answer: A

Explanation:

Given equ. can be resolved into

$$2 \times \frac{3}{4} \times \frac{4}{5} \dots \times \frac{24}{25}$$

$$\text{or } \frac{2}{25}$$

Question 115

A number, when divided by 136, leaves remainder 36. If the same number is divided by 17, the remainder will be

- A 9
- B 7
- C 3
- D 2

Answer: D

Explanation:

Number will be $(136n + 36)$ where n is quotient

hence when it is divided by 17 remainder for $\frac{136n+36}{17}$ will be 2 as 136 is divisible by 17 and $36=34+2$

Question 116

Simplified form of $[(\sqrt[5]{x^{-3}})^{-5}]^5$

- A x^5
- B x^{-5}
- C x
- D $1/x$

Answer: C

Explanation:

All powers of x will be cancelled off and it will reduce to x .

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Question 117

A 4-digit number is formed by repeating a 2-digit number such as 1515, 3737, etc. Any number of this form is exactly divisible by

- A 7
- B 11
- C 13
- D 101

Answer: D

Explanation:

let's say digit is $pqqq$
or $pq00 + pq$
or $pq \times 100 + pq$
or $pq(100 + 1)$
or $pq(101)$
hence digit will always be divisible by 101

Question 118

$(0.1 \times 0.01 \times 0.001 \times 10^7)$ is equal to

- A 1
- B 1000
- C 100
- D 10

Answer: D

Explanation:

given equation can be resolved into $10^{-1-2-3+7}$
i.e. equals to 10

Question 119

If $2p + \frac{1}{p} = 4$ the value of $p^3 + \frac{1}{8p^3}$

- A 4
- B 5
- C 8
- D 15

Answer: B

Explanation:

Given $2p + \frac{1}{p} = 4$

or $p + \frac{1}{2p} = 2$

taking cube on both sides we will get

$$(p^3 + \frac{1}{8p^3}) + 3(\frac{p}{2} + \frac{1}{4p}) = 8$$

as $(\frac{p}{2} + \frac{1}{4p})$ will be equal to 1 from the given eq.

hence $(p^3 + \frac{1}{8p^3}) = 5$

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Question 120

If p and q represent digits, what is the possible maximum value of q in the statement $5p9 + 327 + 2q8 = 1114$?

- A 9
- B 8
- C 7
- D 6

Answer: C

Explanation:

We can break the sum according to $500 + 10p + 9 + 327 + 200 + 10q + 8 = 1114$

or $1027 + 17 + 10(p+q) = 1114$

or $(p+q) = 7$

so for q to be maximum p will be zero then $q = 7$

Question 121

The least among the fractions $\frac{15}{16}, \frac{19}{20}, \frac{24}{25}, \frac{34}{35}$ is

- A $\frac{34}{35}$
- B $\frac{15}{16}$
- C $\frac{19}{20}$
- D $\frac{24}{25}$

Answer: B

Explanation:

Given numbers can be resolved like $(1 - \frac{1}{16}), (1 - \frac{1}{20}), (1 - \frac{1}{25}), (1 - \frac{1}{35})$

hence smallest among them will be the one having maximum subtraction from 1.

so answer is $\frac{15}{16}$

Question 122

1.27 in the form $\frac{p}{q}$ is equal to

A $\frac{127}{100}$

B $\frac{73}{100}$

C $\frac{14}{11}$

D $\frac{11}{14}$

Answer: C

Explanation:

let's say $x = 1.272727272727\dots$

or $100x = 127.2727272727\dots$

subtracting the above equations..

$99x = 126$

or $x = \frac{14}{11}$

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Question 123

$\frac{3.25 \times 3.20 - 3.20 \times 3.05}{0.064}$ is equal to

A 1

B $\frac{1}{2}$

C $\frac{1}{10}$

D 10

Answer: D

Explanation:

After taking 3.20 in common

it will be $\frac{3.20(.20)}{0.064}$

or equals to 10

Question 124

Out of six consecutive natural numbers, if the sum of first three is 27, what is the sum of the other three ?

A 36

B 35

C 25

D 24

Answer: A

Explanation:

let's say 6 consecutive numbers are $(a-d), a, (a+d), (a+2d), (a+3d), (a+4d)$

where d is the common difference i.e. 1 (given) and a is second term
summation of first three terms will be $3a = 27$
hence second term $a = 9$
now sequence is 8,9,10,11,12,13,
so sum of last three terms 36

Question 125

The H.C.F and L.C.M of two numbers are 12 and 336 respectively. If one of the numbers is 84, the other is

- A 36
- B 48
- C 72
- D 96

Answer: B

Explanation:

As we know product of numbers = H.C.F. * L.C.M. of numbers
hence $84 \times x = 12 \times 336$ (where x is one of the numbers)
 $x = 48$

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Question 126

The sum of two numbers is 36 and their H.C.F and L.C.M. are 3 and 105 respectively. The sum of the reciprocals of two numbers is

- A $2/35$
- B $3/25$
- C $4/35$
- D $2/25$

Answer: C

Explanation:

let's say numbers are x and y

hence sum of the reciprocals will be $\frac{1}{x} + \frac{1}{y}$

or $\frac{x+y}{xy}$

as $x + y = 36$ (given)

and $xy = HCF \times LCM$
 $= 3 \times 105 = 315$

after putting the values we will get summation of reciprocals equals to $\frac{4}{35}$

Question 127

If n be any natural number. then by which largest number $(n^3 - n)$ is always divisible ?

- A 3
- B 6
- C 12
- D 18

Answer: B

Explanation:

$(n^3 - n)$ can be written as $n(n-1)(n+1)$

for n to be any natural number, $n^3 - n$ is a product 3 consecutive numbers starting from 1. hence for any value of a min. product of 6 will be there hence it is always be divisible by 6.

Question 128

If $1.5a = 0.04b$ then $\frac{b-a}{b+a}$ is equal to

A 73:77

B 33:37

C 75:79

D 2:3

Answer: A

Explanation:

$1.5a = 0.04b$ (given)

or $\frac{b}{a} = 37.5$

or $\frac{b}{a} = 37.5$

Now $\frac{b-a}{b+a} = \frac{\frac{b}{a} - 1}{\frac{b}{a} + 1}$

putting values and after solving we will get answer as $\frac{73}{77}$

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Question 129

How many perfect squares lie between 120 and 300 ?

A 5

B 6

C 7

D 8

Answer: C

Explanation:

let's say n be a number whose perfect square lie between 120 and 300

hence $120 < n^2 < 300$

or $121 \leq n^2 \leq 289$

or $11 \leq n \leq 17$

Question 130

$\frac{(0.1)^2 - (0.01)^2}{0.0001} + 1$ is equal to

A 1010

B 110

C 101

D 100

Answer: D

Explanation:

we can solve it by applying $(a^2 - b^2) = (a-b)(a+b)$ to $(0.1^2 - 0.01^2) = (0.1+0.01)(0.1-0.01)$

hence given equation can be reduced to $\frac{(0.1+0.01)(0.1-0.01)}{10^{-4}} = 1$

i.e. equals to 100

Question 131

If there is a profit of 20% on the cost price of an article, the percentage of profit calculated on its selling price will be:

A 24

B 50/3

C 25/3

D 20

Answer: B

Explanation:

let's say cost price is 100

hence with 20% profit selling price will be 120

now profit on selling price will be $\frac{20}{120} \times 100 = \frac{50}{3}$

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Question 132

If the cost price of 15 books is equal to the selling price of 20 books, the loss percent is:

A 16

B 20

C 24

D 25

Answer: D

Explanation:

Let's say selling price of 20 books equals to 100

hence selling price of 15 books will be 75

cost price of 15 books is = 100 (given)

so loss percentage is 25

Question 133

If an article is sold at 200% profit, then the ratio of its cost price to its selling price will be:

A 1:2

B 2:1

C 1:3

D 3:1

Answer: C

Explanation:

As we know cost price + profit = selling price

let's say cost price is x

as profit is 200% on cost price it will be $2x$

hence selling price will be $3x$ and ratio of cost price to selling price will be 1:3

Question 134

If on a marked price, the difference of selling prices with a discount of 30% and two successive discounts of 20% and 10% is Rs. 72, then the marked price (in rupees) is:

- A 3,600
- B 3,000
- C 2,500
- D 2,400

Answer: A

Explanation:

let's say marked price 100

so for first discount of 30% selling price will be 70

and for two successive discounts of 20% and 10% selling price will be 72 and difference will be 2

now when difference between both selling prices is 2, marked price is 100

so when difference between both selling prices is 72, marked price will be $\frac{100}{2} \times 72 = 3600$

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Question 135

If an electricity bill is paid before due date, one gets a reduction of 4% on the amount of the bill. By paying the bill before due date a person got a reduction of Rs. 13. The amount of his electricity bill was:

- A Rs. 125
- B Rs. 225
- C Rs. 325
- D Rs. 425

Answer: C

Explanation:

let's say amount of electricity bill is 100

so reduction will be 4

hence when reduction is 4 amount of electricity bill is 100

now when reduction is 13 amount of electricity bill will be $\frac{100}{4} \times 13$

Question 136

Successive discounts of 10%, 20% and 30% is equivalent to a single discount of:

- A 60%
- B 49.6%
- C 40.5%
- D 36%

Answer: B

Explanation:

We can assume that discount is on a price of 100
so after first discount of 10% its value will be = 90

now after second consecutive discount of 20% its value will be $90(1 - \frac{20}{100})=72$

and after third consecutive discount of 30% its value will be $72(1 - \frac{30}{100})=50.4$
hence it is a equivalent to a single discount of $100-50.4=49.6$

Question 137

The price of an article was first increased by 10% and then again by 20%. If the last increased price be IRS. 33, the original price was:

- A Rs. 30
- B RS. 27.50
- C Rs. 26.50
- D Rs. 25

Answer: D

Explanation:

Let's say its original price is 100

hence after first increment of 10% its value will be 110.

and after second consecutive increment of 20% its value will be 132

so when its value becomes 132 , original price is 100

now when its value becomes 33 , original price will be $\frac{100}{132} \times 33$

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Question 138

If each side of a square is increased by 10%. its area will be increased by:

- A 10%
- B 21%
- C 44%
- D 100%

Answer: B

Explanation:

Let's say side of square is 100 unit

its area will be 10^4unit^2

after 10% increment its value will be 110 unit

and area will become $1.21 \times 10^4 \text{unit}^2$

change in area $.21 \times 10^4 \text{unit}^2$

percentage change will be 21

Question 139

The ratio of milk and water in mixtures of four containers are 5:3, 2:1, 3:2 and 7:4 respectively. In which container is the quantity of milk, relative to water, minimum?

- A First

- B Second
- C Third
- D Fourth

Answer: C

Explanation:

In first container quantity of milk relative to water is $\frac{5}{3} \times 100 = 166.65\%$

In second container quantity of milk relative to water is $\frac{2}{1} \times 100 = 200\%$

In third container quantity of milk relative to water is $\frac{2}{1} \times 100 = 150\%$

In fourth container quantity of milk relative to water is $\frac{7}{4} \times 100 = 175\%$

hence third container has least ratio

Question 140

Two numbers are in the ratio 1:3. If their sum is 240, then their difference is:

- A 120
- B 108
- C 100
- D 96

Answer: A

Explanation:

let's say one number is x and another is $3x$

summation will be $4x = 240$

$$x = 60$$

hence number will be 60 and 180

and difference will be 120.

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Question 141

The ratio of income and expenditure of a person is 11:10. If he saves RS. 9,000 per annum. his monthly income is:

- A Rs. 8,000
- B Rs. 8,800
- C Rs. 8,500
- D Rs. 8,250

Answer: D

Explanation:

let's say income is $11x$ and expenditure is $10x$ hence saving will be x

so when saving is x , annual income is $11x$

now when saving is 9000, annual income will be 99000

and monthly income will be 8,250

Question 142

If $W1:W2 = 2:3$ and $W1:W3 = 1:2$ then $W2:W3$ is:

- A 3:4
- B 4:3
- C 2:3
- D 4:5

Answer: A

Explanation:

$$\frac{W_1}{W_2} = \frac{2}{3} \text{ (given)}$$

$$\frac{W_1}{W_3} = \frac{1}{2} \text{ (given)}$$

putting value of W_1 from first equation to second equation and after solving it we will get

$$\frac{W_2}{W_3} = \frac{3}{4}$$

Question 143

A copper wire of length 36 m and diameter 2 mm is melted to form a sphere. The radius of the sphere (in cm) is:

- A 2.5
- B 3
- C 3.5
- D 4

Answer: B

Explanation:

since we know volume will remain same while melting

$$\pi r_1^2 h = \frac{4}{3} \pi r_2^3$$

where r_1 is radius of cylindrical wire and r_2 is radius of sphere and h is length of wire

putting values we will get $r_2 = 3$ cm.

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Question 144

The ratio of the radii of two wheels is 3:4. The ratio of their circumferences is:

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

Answer: B

Explanation:

Since we know circumference of circle is directly proportional to radii of circles hence they will be in the same ratio with their radii.

Question 145

If the length of a rectangle is increased by 10% and its breadth is decreased by 10%, the change in its area will be:

- A 1% increase
- B 1% decrease
- C 10% increase
- D No change

Answer: B

Explanation:

let's say length is 100 and width is also 100 hence area will be 10^4 unit^2

after 10% increase, length will be 110 and 10% decrease in width, it will be 90 and area will be 9900 unit^2

%change in area will be = $\frac{100}{10000} \times 100 = 1\%$

Question 146

In how many years will a sum of money double itself at 25/4 simple interest per annum ?

- A 24
- B 20
- C 16
- D 12

Answer: C

Explanation:

For simple interest it, I (interest value) will be = $\frac{P \times R \times T}{100}$ (where P is principal amount, R is rate and T is time)

for Total amount to be double, interest value I will be = P

Hence putting values in formulae $P = \frac{P \times R \times T}{100}$ (put $R = \frac{25}{4}$)

we will get T = 16

General Science Notes for SSC CGL

Question 147

A sum of Rs. 12,000, deposited at compound interest becomes double after 5 years. How much will it be after 20 years ?

- A Rs. 1,44,000
- B Rs. 1,20,000
- C Rs. 1, 50,000
- D Rs. 1,92,000

Answer: D

Explanation:

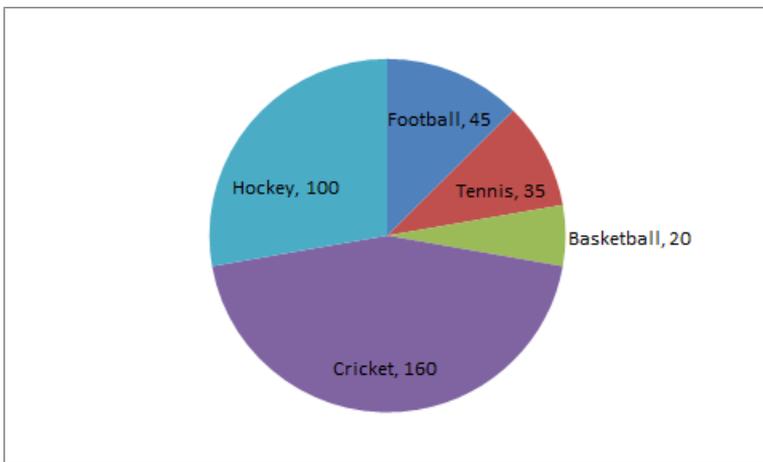
For compound interest $A = p(1 + \frac{r}{100})^n$ where p is principal amount, r is rate and t is time
after 5 years it gets doubled

hence putting the values we will get $(1 + \frac{r}{100})^5 = 2$

now after 20 years total amount will be $p((1 + \frac{r}{100})^5)^4 = 16p = 16 \times 12000 = 192000$

Instructions

Directions :The pie-chart, given here, shows the amount of money spent on various sports by a school administration in a particular year. Observe the pie chart and answer the questions based on this graph.



Question 148

If the money spent on football was Rs. 9,000 how much more money was spent on hockey than on football ?

- A Rs. 11,000
- B Rs. 11,500
- C Rs. 12,000
- D Rs. 12,500

Answer: A

Explanation:

Money spent on football is proportional to 45 then distribution of money on hockey is proportional to 100 degree so when money spent is 9000, distribution of money on hockey will be $\frac{100}{45} \times 9000$
 = 20000
 Hence difference is 11000

Question 149

If the money spent on football was Rs. 9,000, what amount was spent on Cricket ?

- A Rs. 31,000
- B Rs. 31,500
- C Rs. 32,000
- D Rs. 32,500

Answer: C

Explanation:

Money spent on football is proportional to 45 then distribution of money on cricket is proportional to 160 degree so when money spent is 9000, distribution of money on cricket will be $\frac{160}{45} \times 9000$
 = 32000

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Question 150

If the money spent on football is Rs. 9,000, then what was the total amount spent on all sports ?

- A Rs. 73,000

- B Rs. 72,800
- C Rs. 72,500
- D Rs. 72,000

Answer: D

Explanation:

Money spent on football is proportional to 45 then whole distribution of money is proportional to 360 degree so when money spent is 9000, whole distribution of money will be $\frac{360}{45} \times 9000$
= 72000

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English

Instructions

Directions: In the following questions sentences are given with blanks to be filled in with an appropriate word(s). Four alternatives are suggested for each question. Choose the correct alternative out of the four.

Question 151

The court ____ cognizance of the criminal's words.

- A took
- B made
- C gave
- D allowed

Answer: A

Explanation:

Option A is the correct answer.

Cognizance or cognizance Means Notice, awareness or knowledge.

Here in this sentence, the court notices the words of the criminal. That they are considering the words from the Criminal. So gave, allowed and made doesn't fit in the blank of the sentence.

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Question 152

____ wins this civil war there will be little rejoicing at the victory.

- A Whichever
- B Whoever
- C Whatever
- D Wherever

Answer: B

Explanation:

The correct answer is option -B

Whoever- It is a subject pronoun & work like the pronouns I, We, He, She & They.

Ex- Whoever wins this debut will win a prize.

Whoever means -Someone/anyone who does a particular thing or is in a particular situation.

Meaning of the remaining options

1) Whatever- Unexceptional /unimportant,at all, absolutely, whatsoever.No matter which,for any, anything that.

Synonyms- So what.

Ex- **Whatever** may happen,I will go to Mahabaleshwar today.

2) Wherever-(Adverb) An emphatic form of where.

It also acts as a conjunction -whatever place, anywhere,in all places, everywhere.

Ex- I will come with you **wherever** you will take me.

3) Whichever- (Adjective / pronoun) - Any one/ a no of a group.

Ex- **Whichever** pizza you ordered for her, it must have had some very delicious ingredients.

Question 153

As he got older his belief in these principles did not_____.

A wither

B shake

C waver

D dither

Answer: C

Explanation:

The correct answer is option number - C.

Waver means - To sway back & forth, to fluctuate /vary,to tremble,to flatter,to be indecisive.

Dither- To tremble,the state of being undecided.

Wither-To go against,resist,oppose.

Shake -to cause something to move rapidly in opposite directions,to disturb emotionally,to lose,evade,get rid of

Here sentence implies that -As he got older, beliefs in principles became more strong,he didn't fluctuate.

Remaining options are contextually incorrect.

Question 154

Everyone in this world is accountable to God___ his actions.

A about

B for

C to

D over

Answer: B

Explanation:

The correct answer is -B

The correct preposition is `for'.

The given sentence seems to imply that everyone is responsible to God for his actions.

Accountable for -means responsible for.

Meaning of other options

1) about-Near,not far from,on the point of verge of,concerned with,regard to,on account of,on the subject of.We can use `About' in above context.It can refer to movement /position in various directions/places

2) to - It is used to indicate directions.To denote any thing which is at surface area, in rest position.

3) over- it is used to indicate place.

So these are contextually incorrect.

Also the expression `Accountable for' means to responsible for.So,usage of `For' will be correct here.

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Question 155

Your father used to be the principal of this college,

- A did he ?
- B does he ?
- C didn't he?
- D doesn't he ?

Answer: C

Explanation:

The correct answer is option -C

The given sentence is of question tag.

Question tag is used to reconfirm the question or the statement.

If the main sentence is positive, question tag will be negative and vice-versa.

Here the given sentence is positive,so question tag will be negative.

The sentence is in the past form.`Used to' we use as a simple present tense but to indicate the things happened in the past.

Ex-I used to go by bus.

As the sentence is in the past form,usage of `did' will be correct.

`Did' is the past form of the `Do'

Option A- Did he ? Will be wrong.Because given sentence is in the positive form,so question tag will be negative.

Option B- Does he?- Will be wrong.Because the given sentence is in the past tense & `Does' is use for 3rd person singular & when sentence is in present form.

Option D- Doesn't he? - Will be wrong.Because the given sentence is in present tense.Though the question tag is negative,it is wrong.Because `Does' is used when the sentence is in the present tense & subject is 3rd person singular.

Instructions

Directions :In the following questions, choose the word opposite in meaning to the given word.

Question 156

JETTISON

- A accept
- B reward
- C preserve
- D consent

Answer: A

Question 157

AMELIORATE

- A improve
- B depend
- C soften
- D worsen

Answer: D

Question 158

GROTESQUE

- A natural
- B odd
- C whimsical
- D sinful

Answer: A

Question 159

DEVIIOUS

- A straight
- B obvious
- C simple
- D superficial

Answer: A

Question 160

EVANESCENT

- A imminent
- B permanent
- C pervasive
- D immanent

Answer: B

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Instructions

Directions :In the following questions, out of the four alternatives, choose the one which best expresses the meaning of the given word.

Question 161

DEBACLE

- A decline
- B downfall
- C discomfiture
- D degeneration

Answer: B

Question 162

OSTRACISE

- A banish
- B belittle
- C beguile
- D besiege

Answer: A

Question 163

PROPHYLACTIC

- A antagonistic
- B toxic
- C preventive
- D purgative

Answer: C

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Question 164

CODDLE

- A huddle
- B satisfy
- C protect
- D cheat

Answer: C

Question 165

FLIMSY

- A funny
- B irrational
- C weak
- D partisan

Answer: C

Instructions

Directions :In the following questions, a part of the sentence is printed in bold. Below are given alternatives to the bold part at A, B and C which may improve the sentence. Choose the correct alternative. In case no improvement is needed, your answer is d.:

Question 166

To get into the building I'll disguise to the reporter.

- A disguise as a
- B disguise as one
- C disguise myself
- D No improvement

Answer: C

Explanation:

Reflexive pronoun 'myself will be used

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Question 167

He denied that he had not forged my signature.

- A would not forge
- B had forged
- C did not forge
- D No improvement

Answer: B

Explanation:

Correct usage :- had forged

Maintains the sense and purpose of the question

Question 168

If I had played well, I would have won the match.

- A I played well

- B I play well
- C I am playing will
- D No improvement

Answer: D

Explanation:

No improvement

Cause nothing needed

Question 169

Since the records are missing, the possibility of paying more than one compensation for the same piece of land cannot be ruled aside.

- A out
- B off
- C away
- D No improvement

Answer: A

Explanation:

rule out (Phr. V.) : to state that something is not possible or that something is not suitable. rule off (Phr. V.): to separate something from the next section of writing by drawing a line underneath it

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Question 170

A callous system generates nothing but a mica- mope

- A develops
- B induces
- C produces
- D No improvement

Answer: C

Explanation:

callous (Adj.) : cruel ; not caring about people's feelings or suffering generates (verb): to produce or create something misanthrope (Noun): a person who hates and avoids other people

Instructions

Directions :In the following questions, out of the four alternatives, choose the one which can be substituted for the given words/ sentence.

Question 171

One who hides away on a ship to obtain a free passage

- A Compositor
- B Stoker
- C Stowaway
- D Shipwright

Answer: C

Question 172

Clines available at a scene

- A circumstantial
- B derivative
- C inferential
- D suggestive

Answer: A

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Question 173

An unexpected piece of good fortune

- A windfall
- B philanthropy
- C benevolence
- D turnstile

Answer: A

Question 174

An emolument over and above fixed income or salary

- A Honorarium
- B Sinecure
- C Perquisite
- D Prerogative

Answer: A

Question 175

The animals of a particular region

- A Flora
- B Museum

- C Zoo
- D Fauna

Answer: D

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Instructions

Directions :In the following questions, groups of four words are given. In each group, one word is correctly spelt. Find the correctly spelt word.

Question 176

- A parapharnelia
- B parsimonious
- C peccadilo
- D peadiatrics

Answer: B

Question 177

- A measureable
- B manageable
- C marriagable
- D manoevrable

Answer: B

Question 178

- A tussel
- B tunnle
- C tumble
- D trable

Answer: C

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Question 179

- A populus
- B pompuous
- C prelious
- D presumptuous

Answer: D

Question 180

- A impromptue
- B illustrious
- C illusery
- D impetous

Answer: B

Instructions

Directions :In the following questions, the 1st and the las sentences of the passage are numbered 1. and 6. The rest of the passage f split into four parts and named P, Q, and S. These four parts are not giver in their proper order. Read the sen tence and find out which of the fou combinations is correct. Then find the correct answer.

Question 181

- 1. **The most vulnerable section of the society are the students.**
- P. **Revolutionary and new fledged ideas have a great appeal to them.**
- Q. **Agitations may be non-violent methods of protest.**
- R. **They cannot resist the charm of persuasion.**
- S. **They are to be taught that without discipline they cannot get proper education.**
- 6. **However if these become violent, the antisocial elements get encouraged and they put all proper working out of gear.**

- A PRSQ
- B RSQP
- C SRPQ
- D RPQS

Answer: A

Explanation:

The correct answer is option -A.

1st sentence- The most vulnerable section of the society are the **students**.

Connectors - from P to R

Sentence P -Revolutionary and new fledged ideas have a great appeal to **them**.

Sentence R- **They** cannot resist the charm of persuasion.

Connectors from R to S

Sentence R - **They** cannot resist the charm of persuasion.

Sentence S-They are to be taught that **without discipline they cannot get proper education**.

Now in last sentence Q

Agitations may be non-violent methods of protest.

Overall the passage talks about students ,that they are unguarded.They should know the value of discipline.

The correct sequence -PRSQ.

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Question 182

1. Venice is a strange city.
- P. There are about 400 odd bridges connecting the islands of Venice.
- Q. There are no motor cars, no horses and no buses there.
- R. These small islands are close to one another.
- S. It is not one island but a hundred islands.
6. This is because Venice has no streets.

- A SRPQ
- B PSRQ
- C RAPS
- D QSRP

Answer: A

Explanation:

The correct answer is option number -A

1st sentence is -**Venice** is a strange city.

Connectors from S to R.

Sentence S - **It is not one island but a hundred islands.**

Sentence R- **These small islands** are close to one another.

Connectors from R to P

Sentence R - These **small islands are close to one another.**

Sentence P- There are **about 400 odd bridges connecting the islands of Venice.**

Noe in last sentence Q will come

Sentence Q-**There are no motor cars,** no horses and no buses

Last sentence is - **This is because** Venice has no streets.

If we Check the concluding sentence,we can see it is giving an explanation why there are no motors,cars.

So overall, sentence starts with Venice city,then it is briefing more about it.

The correct sequence there will be -SRPQ.

Question 183

1. One of the most terrible battles of the American Civil War was fought in July 1863, at Gettysburg.
- P. The chief speech on that occasion was given by Edward Everett, a celebrated orator.
- Q. Lincoln was asked to make a few remarks.
- R. In November of that year a portion of the battlefield was dedicated as a final resting place for men of both armies who died there.
- S. Everett's speech lasted 2 hours. Lincoln's for 2 minutes; it was over almost before the crowd realized that it had begun.
6. But the Gettysburg speech is now one of the world's immortal pieces of literature.

- A SQRP
- B RPQS
- C PQRS
- D QPSR

Answer: B

Explanation:

The correct answer is option -B

1st sentence - One of the most terrible battles of the American Civil War was fought in **July 1863**, at Gettysburg

Connector -In November of **that year** a portion of the battlefield was dedicated as a final resting place for men of both armies who died there.

Pronoun 'that' refers to July 1863 in the introductory sentence.

Connectors from R to P

Sentence R- In November of that year a portion of the **battlefield was dedicated as a final resting place for men of both armies** who died there

Sentence P- The **chief speech on that occasion was given** by Edward Everett, a celebrated orator.

Sentence R tells about the occasion which is briefly explained in sentence P.

Connectors from P to Q

Sentence P- The chief speech on that occasion was given by **Edward Everett, a celebrated orator**.

Sentence Q- **Lincoln was asked to make a few remarks**.

Connectors from Q to S

Sentence Q- **Lincoln was asked to make a few remarks**.

Sentence S-**Everett's speech lasted 2 hours. Lincoln's for 2 minutes**; it was over almost before the crowd realized that it had begun.

And in the last concluding sentence will come which is already given.

Question 184

1. The teacher training agency in England hopes to make teaching one of the top three professions.

P. They have also demanded that the campaign should be matched by improved pay scales, work load and morale so as to avoid recruitment problems with an aim to raise the image of the teaching profession.

Q. A series of advertisements are now being screened showing famous people speaking about teachers they remember and admire.

R. An amount of \$100 million has been set aside to combat the shortage of applicants for teacher training.

S. Teacher Unions have welcomed this campaign.

6. It is high time for the Indian Government also to think on similar lines and take steps to lift up the sinking morale of the teaching profession.

A QRPS

B RPSQ

C RQSP

D QPSR

Answer: C

Explanation:

The correct answer is option -C

1st sentence-The teacher training agency in England hopes to make **teaching one of the top three professions**.

Connectors from R to Q

R- An amount of \$100 million has been set aside **to combat the shortage of applicants for teacher training**.

Q. **A series of advertisements** are now being screened showing **famous people speaking about teachers they remember and admire**.

Connectors from S to P

S. Teacher Unions have welcomed **this campaign**.

P.They have also demanded that the **campaign should be matched by** improved pay scales, work load and morale so as to avoid recruitment problems with **an aim to raise the image of the teaching profession**.

And in last

*It is high time for the **Indian Government also to think on similar lines** and take steps to lift up the sinking morale of the teaching profession.*

So all sentences are interconnected.

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Question 185

1. Some say that failure is like toxic waste.
P. I see failure more as a fertilizer.
Q. Thinking about it pollutes and undermines the attitudes needed for success.
R. The seeds of success must be planted afresh.
S. It can be used to enrich the soil of your mind.
6. Turning failure into a fertilizer is accomplished by using your errors as steps in learning.

- A SRQP
B PQSR
C SPQR
D QPSR

Answer: D

Explanation:

The correct answer is option -D.

1st sentence- Some say that **failure** is like **toxic waste**.

Connectors from Q to P

Q-**Thinking about it** pollutes and undermines the attitudes needed for success.

P- I see **failure** more as **a fertilizer**.

Connectors from P to S.

P- I see **failure** more as **a fertilizer**.

S. It can be **used to enrich the soil of your mind**.

Connectors from S to R

S. It can be **used to enrich the soil of your mind** .

R. The **seeds of success must be planted afresh**.

And in last concluding sentence will come which is already given.

Turning failure into a fertilizer is accomplished by using your errors as steps in learning.

Instructions

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

Question 186

The agent had disclosed the secret before it was evening.

- A The secret was disclosed by the agent before it was evening.
B The secret had disclosed by the agent before it had been evening.
C The secret had been disclosed by the agent before it was evening.
D The secret was disclosed by the agent before it had been evening.

Answer: C

Explanation:

The correct answer is option -C

The given sentence is the active voice.

We have to change it into passive voice.

Active voice- Subject+verb+object +complement.

Passive voice- object + auxiliary verb+V3+by+Subject+complement.

The given sentence is in the past perfect tense.

Only option C is grammatically correct.

Option A-it is in simple past form. But given sentence is in past perfect tense.

Option -B - it is in the present perfect tense. But usage of 'been' is on wrong place. It should be after helping verb 'Had'.

Option D- It is in the simple past form.

So except option C all are grammatically incorrect.

Question 187

Surely the lost child must have been found by now.

- A Surely must have found the lost child by now.
- B Surely someone must have found the lost child by now.
- C Surely now must have found the lost child
- D Now must have found the lost child surely.

Answer: B

Explanation:

The correct answer is option number -B

The given construction is in passive form

We need to change it in the active voice.

The given sentence is in present perfect tense.

So option B is the correct answer.

Rest options are grammatically incorrect.

General Science Notes for SSC CGL

Question 188

We serve hot meals till 10.30 guests can order, coffee and sandwiches upto 11.30.

- A Hot meals are serving till 10.30; coffee and sandwiches are ordering by guests till 11.30.
- B Hot meals are being served till 10.30 coffee and sandwiches are being ordered till 11-30.
- C Hot meals are served till 10.30; coffee and sandwiches may be ordered till 11.30.
- D Hot meals will be served till 10.30; coffee and sandwiches will be ordered upto 11.30.

Answer: C

Explanation:

The correct answer is option number -C

The given sentence is in active voice.

Question 189

Lie facedown; stretch your arms in front.

- A You are face down, arms are to be outstretched
- B You should be lying face down, with arms outstretched.
- C You should be lying face down; let arms stretch out.
- D Let face be down; let arms be stretched out.

Answer: D

Explanation:

The correct answer is option number -D

If the sentence starts with `verb' then we use `let' while changing it into passive voice.

Given construction - verb +object.

Passive voice - Let + object + be+ V3.

Remaining options are incorrect.

Question 190

The Greeks expected to win the international trophy.

- A It was expected that the Greeks would win the international trophy.
- B The international trophy was expected to be won by the Greeks.
- C It was expected that the Greeks will win the international trophy.
- D It was expected by the Greeks that they would win the international trophy.

Answer: D

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Instructions

Directions: In the following questions, you have one brief passage with 5 questions following the passage. Read the passage carefully and choose the best answer to each question out of the four alternatives. In May 1966, the World Health Organisation was authorised to initiate a global campaign to eradicate small pox. The goal was to eradicate the disease in one decade. Because similar projects for malaria and yellow fever had failed, few believed that smallpox could actually be eradicated, but eleven years after the initial organisation of the campaign, no cases were reported in the field. The strategy was not only to provide mass vaccinations, but also to isolate patients with active small-pox in order to contain the spread of the disease and to break the chain of human transmission. Rewards for reporting small-pox assisted in motivating the public to aid health workers. One by one, each small-pox victim was sought out, removed from contact with others and treated. At the same time, the entire, village where the victim had lived was vaccinated. Today small-pox is no longer a threat to humanity. Routine vaccinations have been stopped worldwide.

Question 191

Which of the following is the best title for the passage ?

- A The World Health Organisation
- B The Eradication of Small-pox
- C Small-pox Vaccinations
- D Infectious Diseases

Answer: B

Question 192

What was the goal of the campaign against small pox ?

- A To decrease the spread of small-pox worldwide.
- B To eliminate smallpox worldwide in ten years.
- C To provide mass vaccinations against small-pox worldwide.
- D To initiate worldwide projects for small-pox, malaria and yellow fever at the same time.

Answer: B

Question 193

According to the paragraph what was the strategy used to eliminate the spread of small-pox ?

- A Vaccination of the entire village
- B Treatment of individual victims.
- C Isolation of victims and mass vaccinations
- D Extensive reporting of out breaks.

Answer: C

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Question 194

Which statement doesn't refer to small-pox?

- A Previous projects had failed.
- B People are no longer vaccinated for it.
- C The World Health Organisation mounted a worldwide campaign to eradicate the disease.
- D It was a serious threat.

Answer: A

Question 195

It can be inferred that

- A no new cases of small-pox have been reported this year.
- B malaria and yellow fever have been eliminated.
- C small-pox victims no longer die when they contract the disease,
- D small-pox is not transmitted from one person to another.

Answer: C

Instructions

Directions :Some of the sentences have errors and some have none. Find out which part of a sentence has an error. The number of that part is your answer. If there is no error, your answer is d:

Question 196

Judge in him/prevailed upon the father/and he sentenced his son to death/No error.

- A Judge in him
- B prevailed upon the father
- C and he sentenced his son to death
- D No error

Answer: A

Explanation:

The article "the" is needed before the noun "judge". Hence, the sentence should have been "The judge in him prevailed upon the father and he sentenced his son to death."

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Question 197

Nine tenths/of the pillar/have rotted away./No error.

- A Nine tenths
- B of the pillar
- C have rotted away.
- D No error.

Answer: C

Explanation:

The subject is singular so it will be **has rotted** away

Question 198

One major reason/ for the popularity of television is / that most people like to stay at home / No error.

- A One major reason
- B for the popularity of television is
- C that most people like to stay at home
- D No error

Answer: C

Explanation:

Insert **of the** before people

Question 199

Our efforts are/aimed to bring about/a reconciliation./No error.

- A Our efforts are
- B aimed to bring about
- C a reconciliation.
- D No error

Answer: A

Explanation:

It should be **our effort is aimed** our refers the spirit of a team.

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Question 200

Three conditions/critical for growing/plants are soil, temperature, chemical balance or amount of moisture./ No error.

- A Three conditions
- B critical for growing
- C plants are soil, temperature, chemical balance or amount of moisture.
- D No error.

Answer: A

Explanation:

It should be **three critical conditions**.

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