cracku

SSC CGL 2013 Tier 1

Reasoning

Question 1

Tanning : Leather : : Pyrotechnics : ?

A Bombs

B Fireworks

C Wool

D Machinery

Answer: B

Explanation:

Through tanning leather is formed and pyrotechnics is done through fireworks

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Question 2

King : Throne : : Rider : ?

A Chair

B Horse

C Seat

D Saddle

Answer: C

Explanation:

King sits on a throne and a rider will be sitting on a seat which is more generalise and appropriate to word rider
Hence our answer will be C

Question 3

F : 216 : : L : ?

A 1728

B 1700

C 1600

D 1723

Answer: A

Explanation:

Word F is at a place numbered 6 hence given proportional number is cube of it
now for L proportional number will be cube of 12 i.e. 1728

Question 4

MOUSE : KPSTC : : LIGHT : ?

A MGHFU

B JGEFR

C JJEIR

D MJHIU

Answer: C

Explanation:
In KPSTC
K is two before M in mouse
P is one ahead of P in mouse
S is two before u in mouse
T is one one ahead in mouse
C is two before E in mouse
with this pattern word proportional to LIGHT will be JJEIR

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Instructions
For the following questions answer them individually

Question 5

If 264 * 2 = 6, 870 * 3 = 11, then what should 735 * 5 be?

A 12

B 16

C 03

D 05

Answer: A

Explanation:
The pattern is we have to treat the $'\times'$ sin as $'\div'$ sign, and add the digits of the answer.

=> $\frac{264}{2} = 132$ and $1 + 3 + 2 = 6$

Similarly, $\frac{870}{3} = 290$ and $2 + 9 + 0 = 11$

$\therefore \frac{735}{5} = 147$ and $1 + 4 + 7 = 12$

=> Ans - (A)

Question 6

Which one of the given response would be a meaningful order of the following?
1. Implementation
2. Conceptual Modelling
3. Requirements Analysis
4. Logical Modelling
5. Physical Model
6. Schema Refinement

A 3, 2, 4, 6, 5, 1

B 1, 3, 2, 6, 5, 4

C 3, 2, 5, 4, 6, 1

D 3, 2, 1, 4, 6, 5

Answer: C

Explanation:

It is clear that implementation will come at last
hence answer will be either A) or C)
now we have to choose among logical modelling, physical modelling and schema refinement which will come first or last
it is clear that schema refinement after both modelling hence answer will be C)

Instructions

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

Question 7

b_ab_b_aab_b

A abbb

B abba

C baaa

D aabb

Answer: D

Explanation:

In first option we are getting a pattern like
baabbbbaabbb
2 triplets bbb, baa

Question 8

_bcab_cabc_abca_b

A abca

B aabc

C bbca

D abac

Answer: A

Explanation:

Expression : _bcab_cabc_abca_b

The pattern is that in a group of 5, we have to keep repeating the first three alphabets.

=> **a**bcab **b**cabc **c**abca **ab**

=> Ans - (A)

Instructions

Directions : Find the odd word/number/number-pair from the given alternatives.

Question 9

A Head

B Heed

C Led

D Heap

Answer: C

Explanation:

Except in the word 'led', in all other words there are two vowels.

=> Ans - (C)

Question 10

A Scurvy

B Rickets

C Night-blindness

D Influenza

Answer: D

Explanation:

Given first three options are diseases occured by lack of vitamins C, D and A respectively.
But influenza is a name of virus through which viral fever occur.

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Question 11

A Rain

B Shower

C Sleet

D Raisin

Answer: D

Explanation:

First three options are related with water or rain except last one which is raisin that means "partially dried grape"

Question 12

A 547-563

B 71-55

C 517-533

D 248-231

Answer: D

Explanation:

Given pairs are formed by addition of 16 or substraction of 16 except (D).

Question 13

10, 13, 234, 681, 997

A 10

B 234

C 13

D 681

    Answer: D

Explanation:

The pattern is that the sum of digits of the numbers is a perfect square.

10 => 1 + 0 = 1

13 => 1 + 3 = 4

234 => 2 + 3 + 4 = 9

681 => 6 + 8 + 1 = **15**

997 => 9 + 9 + 7 = 25

=> Ans - (D)

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Instructions

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

Question 14

AFI, JOR, MRU, ?

A GJN

B HMP

C PMO

D RJL

    Answer: B

Explanation:

In given words, second letter is 4 ahead of its previous one and 3rd letter is 2 ahead of its previous one.
Only option B is following this pattern , hence our answer will be B

Question 15

bc, cde, de, efg, fg, ?

A ghi

B fgh

C hij

D ijk

    Answer: A

Explanation:

At even places there should be three laters starting from last letter of previous one hence next will be ghi

Question 16

C - 3, E - 5, G - 7, I - 9, ?,

A   X - 24, M - 21

B   K - 11, M - 13

C   O - 15, X - 24

D   M - 18, K - 14

   Answer: B

Explanation:

Letters and numbers are coming with the difference of 2
hence next will be K-11, M-13

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Question 17

5, 16, 51, 158, ?

A   1452

B   483

C   481

D   1454

   Answer: C

Explanation:

In given series:
16 = 5*3 + 1
51 = 16*3 + 3
158 = 51*3 + 5
hence according to pattern next digit will be 158*3 + 7 = 481

Question 18

9 * 2 : 9 * 9 : : 9 * 5 : ?

A 9×4

B 9×6

C 9×7

D 9×8

   Answer: B

Explanation:

Second digit multiplying to 9 in first proportionate sums up to 11
Hence for second proportionate missing digit will be 11-5 = 6

Question 19

Priti scored more than Rahul. Yamuna scored as much as Divya. Lokita scored less than Manju. Rahul scored more than Yamuna. Manju scored less than Divya. Who scored the lowest?

A Manju

B Yamuna

C Lokita

D Rahul

Answer: C

Explanation:
Given informations are: Priti > Rahul ; Yamuna = Divya ; Lokita < Manju ; Rahul > Yamuna ; Manju < Divya
or Priti > Rahul > Yamuna = Divya > Manju > Lokita
hence lokita scores lowest among all of them.

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Question 20

A man showed a boy next to him and said 'He is the son of my wife's sister-in-law but I am the only child of my parents'. How is my son related to him?

A Cousin

B Brother

C Uncle

D Nephew

Answer: A

Explanation:
Father of boy will be maternal uncle to son of described man.
So, that showed boy and son will be cousin to each other.

Question 21

Find the correct group of signs to solve the equation. 24 * 16 * 8 * 32

A - - =

B - + =

C × - =

D + - =

Answer: D

Explanation:
We can apply all options and find out which one fits well
D) balance out numbers as 24+16-8 = 32

Question 22

Sunil is the son of Kesav. Simran, Kesav's sister, has a son Maruti and daughter Sita. Prem is the maternal uncle of Maruti. How is Sunil related to Maruti?

A Cousin

B Maternal Uncle

C Brother

D Nephew

   Answer: B

Explanation:
Keshav is father of sunil
Simran, keshav's sister has a son maruti and a daughter sita.
hence sunil and maruti will be cousin.

General Science Notes for SSC CGL

Instructions

Directions : From the given alternatives, select the word which cannot be formed using the letters of the given word.

Question 23

MANUSCRIPT

A PRIMUS

B SMART

C RUSTIC

D MASTER

   Answer: D

Explanation:
As in word MASTER , we need E letter from the word MANUSCRIPT which is not there hence it can not be formed by it.

Question 24

SEGREGATION

A NATION

B GREAT

C GREETINGS

D SEATING

   Answer: A

Explanation:
In word NATION we require letter "N" from the word "SEGREGATION" which is not there hence answer will be A)

Question 25

CONSTITUTIONAL

A TUITION

B TALENT

C LOCATION

D CONSULT

Answer: B

Explanation:
As for making talent word we require "e" from the letters of word constitutional
hence answer will be B)

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Instructions

For the following questions answer them individually

Question 26

If each of the letters in the English alphabet is assigned an even numerical value by giving A = 2, B = 4 and so on, what would be the total value of the letters for the word 'LADY' when similarly coded?

A 74

B 72

C 80

D 82

Answer: C

Explanation:
L will be having a code as 24
A = 2
D = 8
Y = 46
So it will sum up to 80 .

Question 27

If the word 'LEADER' is coded as 20 - 13 - 9 - 12 - 13 - 26, how would you write 'LIGHT'?

A 20 - 16 - 17 - 15 - 27

B 20 - 15 - 16 - 18 - 23

C 20 - 17 - 15 - 16 - 28

D 20 - 16 - 15 - 17 - 22

Answer: C

Explanation:
it is clear from the given question A is numbered as 9, B as 10, C as 11, D as 12 and so on.
hence word LIGHT can be represented as 20-17-15-16-28

Question 28

If the first and second letters in the word 'COMMUNICATIONS' were interchanged, also the third and the fourth letters, the fifth and sixth letters and so on, which letter would be the tenth letter counting from your right?

A U

B A

C T

D N

    Answer: D

Explanation:
After making changes 10th letter from right will be N

Question 29

Which of the following interchanges of numbers would make the given equation correct?
$8 \times 20 \div 3 + 9 - 5 = 38$

A 3, 8

B 8, 9

C 3, 5

D 3, 9

    Answer: C

Explanation:
$8 \times 20 \div 5 + 9 - 3 = 38$. So, 3 and 5 have to be interchanged

Question 30

Put the correct mathematical signs in the following equation from the given alternatives.
$33 ? 11 ? 3 ? 6 = 115$

A $+, -, \times$

B $\times, \div, -$

C $\div, \times, \times$

D $-, \times, +$

    Answer: B

Explanation:
$33 \times 11 / 3 - 6 = 115$
So, the required answer is option b)

Question 31

Select the correct combination of mathematical signs to replace * signs and to balance the given equation.
$15 * 24 * 3 * 6 * 17$

A $+ \div - =$

B $+ \times = \div$

C $- \times = +$

D $- \div + =$

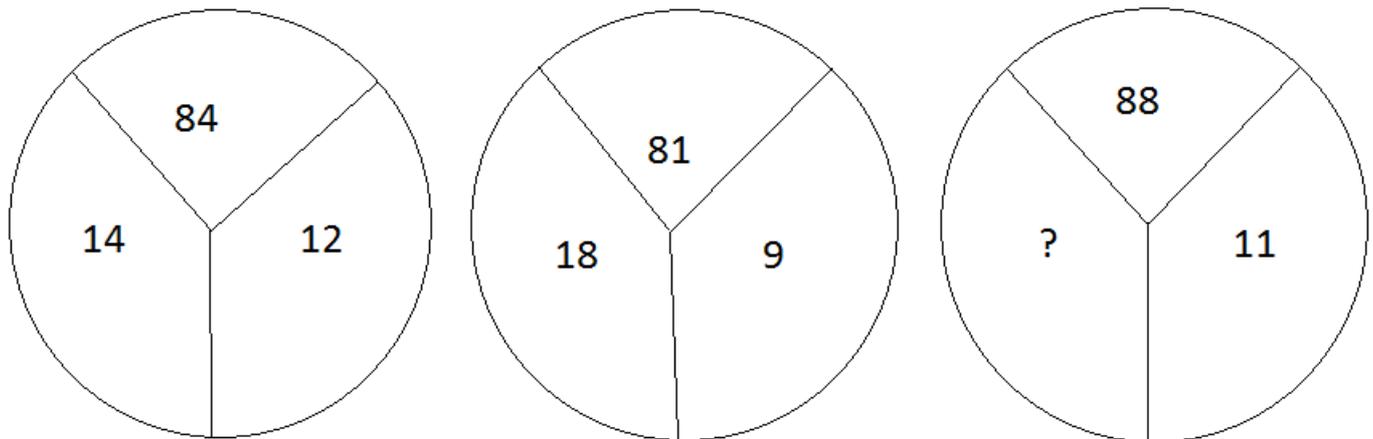   **Answer:** A

Explanation:
Applying option A to given question, it would be:
$15 + 24 \div 3 - 6 = 17$

Instructions

Directions : Select the missing number from the given responses.

Question 32

A 10

B 12

C 14

D 16

   Answer: D

Explanation:
The numbers in the bottom two sectors are multiplied and then divided by 2 to get the number in the upper sector.

=> $\frac{14 \times 12}{2} = 84$

Similarly, $\frac{18 \times 9}{2} = 81$

Thus, $\frac{x \times 11}{2} = 88$

=> $x = 8 \times 2 = 16$

=> Ans - (D)

Question 33

3	5	8	7
4	6	4	6
5\58	2\58	2\62	3\?

A 126

B 122

C 128

D 124

    Answer: D

Explanation:
$58 = 3 \times 4 \times 5 - 2$
$58 = 5 \times 6 \times 2 - 2$
$62 = 8 \times 4 \times 2 - 2$
$124 = 6 \times 7 \times 3 - 2$

Question 34

4	3	2
6	9	10
9	27	?

A 30

B 20

C 50

D 54

    Answer: C

Explanation:
First Column $6 = 1.5 \times 4; 9 = 1.5 \times 6$
Second Column $9 = 3 \times 3; 27 = 3 \times 9$
Third Column $50 = 10 \times 5; 10 = 2 \times 5$

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Instructions
For the following questions answer them individually

Question 35

Raj is standing in the middle of a square field. He starts walking diagonally to North-East. Then, he turns right and reaches the far end of the field. Then, he turns right and starts walking. In the midway, he again turns right and starts walking. In halfway, he turns to his left and reaches new far end. In what direction is Raj now?

A North

B South

C North-West

D South-West

    Answer: D

Explanation:
In first column 6 is 1.5 times of 4 and 9 is also 1.5 times of 6
in second column next digit is 3 times of previous one
and in third coulmn next digit is 5 times the previous one hence answer will be 50

Question 36

A boy starts from home in early morning and walks straight for 8 km facing the Sun. Then, he takes a right turn and walks for 3 km. Then, he turns right again and walks for 2 km and then turns left and walks for 1 km. Then, he turns right, travels 1 km and then turns right and travels for 4 km straight. How far is he from the starting point?

A 5 km

B 6 km

C 2 km

D 4 km

Answer: A

Explanation:
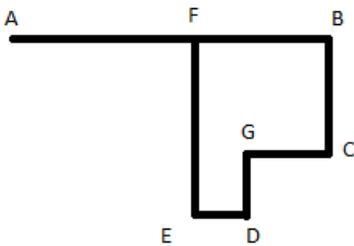
In above mentioned diagram, A is starting point and F is finishing point.
Where AB=8, BC=3, DE=1, EF=4, CG=2km
So BF=3
Hence AF will be 8-BF = 5 (Which is distance from starting point to finishing point)

Instructions

Directions : One / two statements are given, followed by two / three conclusions I, II and III. You have to consider the statements to be true even if they seem to be at variance from commonly known facts. You have to decide which of the given conclusions, if any, follow from the given statements.

Question 37

Statement:
Sick people need medicine.
Conclusions:
I. Healthy people do not need medicine.
II. People keep medicine in their home.

A Only Conclusion I follows

B Only Conclusion II follows

C Both Conclusions I and II follow

D Neither Conclusion I nor II follows

Answer: D

Explanation:
Neither of the conclusion is certain with the statement

Question 38

Statements :
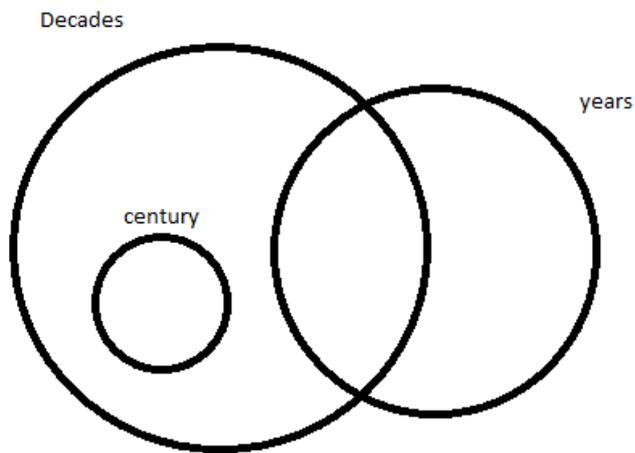I. Some years are decades.
II. All centuries are decades.
Conclusions :
I. Some centuries are years.
II. Some decades are years.
III. No century is a year.

A   Conclusions I and II follow

B   Conclusions I and III follow

C   Only Conclusion I follows

D   Only Conclusion II follows

   Answer: D

Explanation:
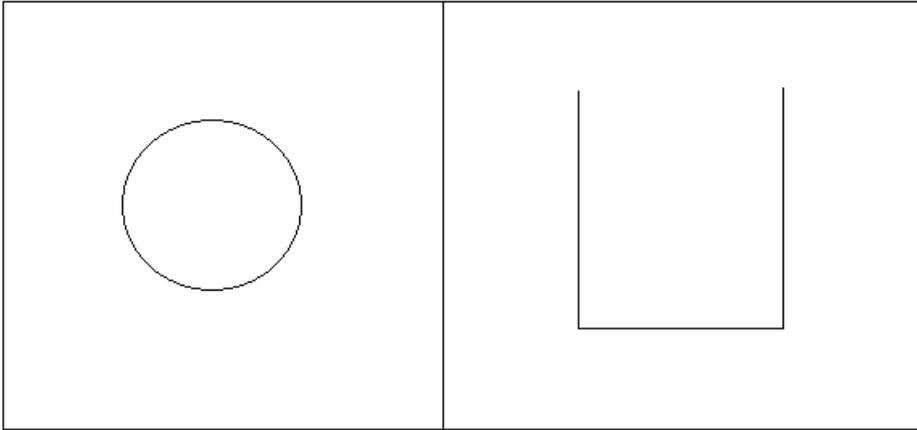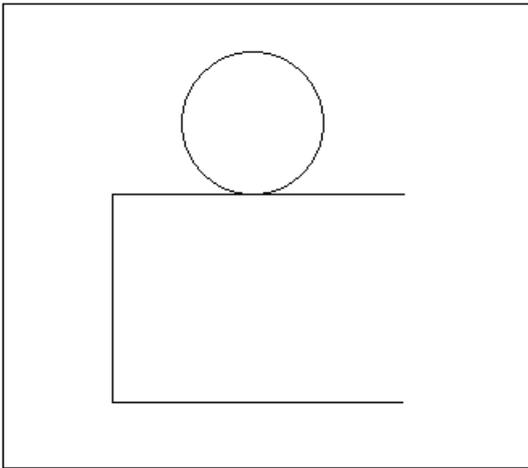Based on the diagram below only conclusion 2 follows.

Instructions
For the following questions answer them individually

Question 39

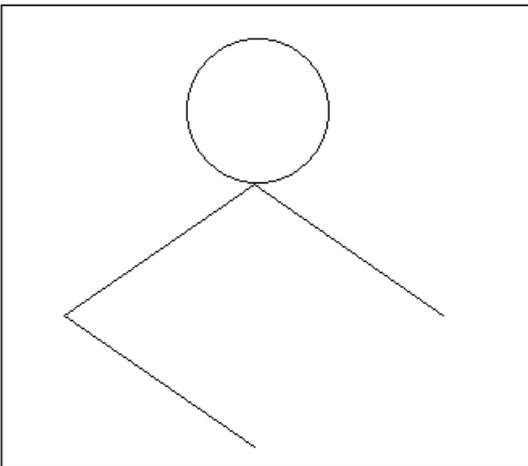There is a ball and a rectangular jar. Four positions are shown below to keep then balanced. Which of the following will not be balanced easily?
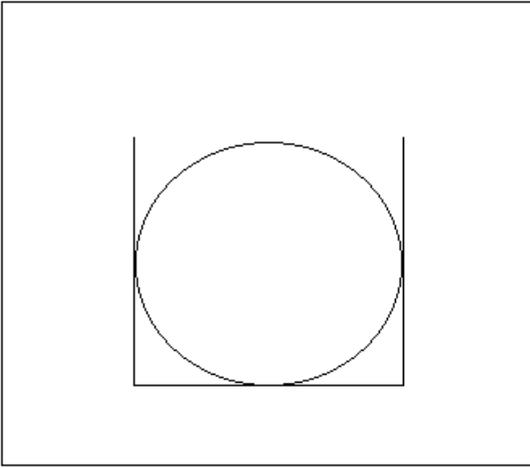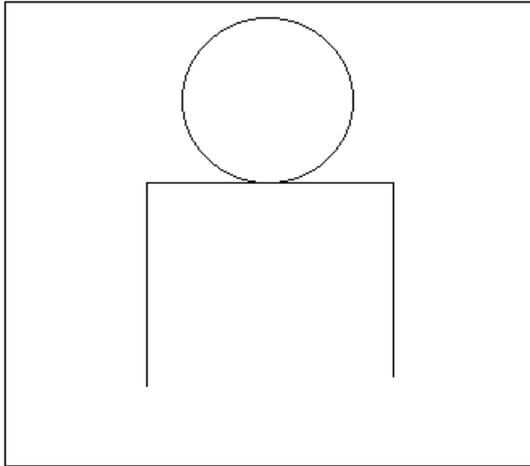
A

B

C

D

Answer: B

Explanation:

It is clear in given options that in option B position will be most unstable as in all other options ball and jar are positioned well and stable whether in B position of ball is at corner side which makes it highly unstable.
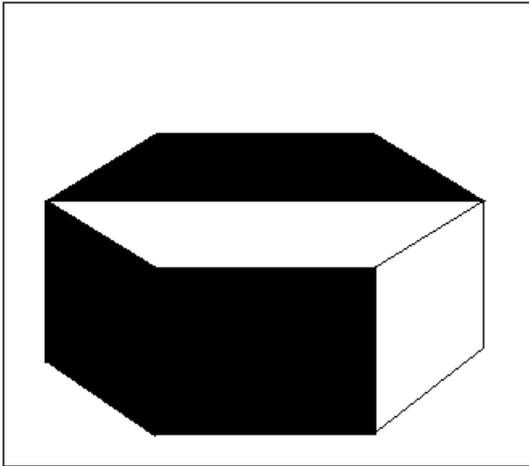
Question 40

Which one of the four boxes given below is created by folding the given key design in the question figure?
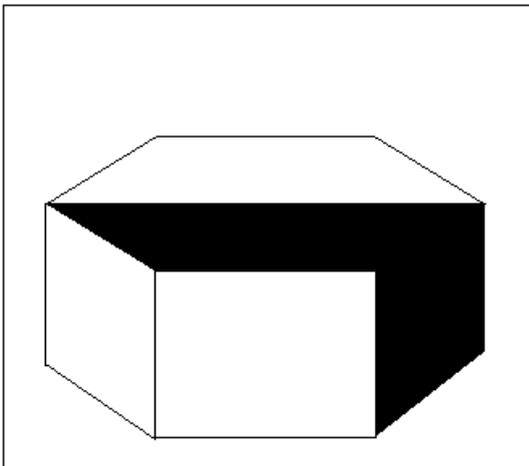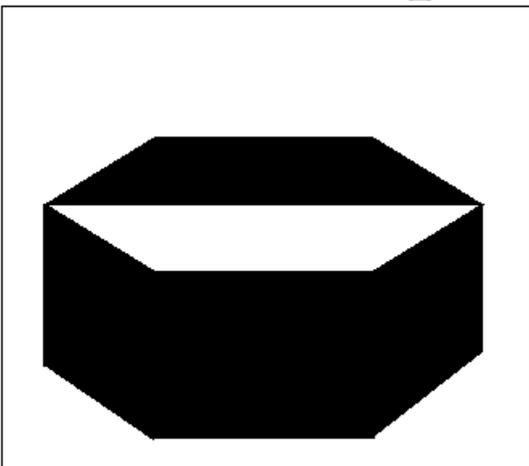
A

B


C

D
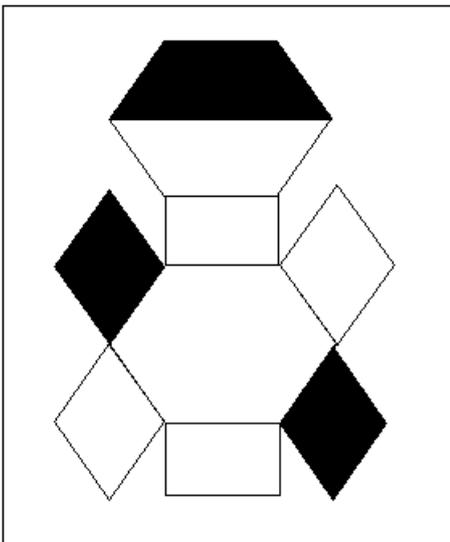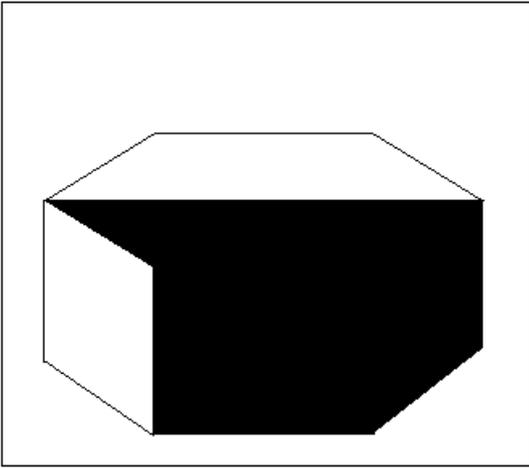
Answer: C

Explanation:
According to the figure given in question one black surface will come on top and two black sides comes opposite to each other. As in options A,B and D black sides are adjacent to each other whether in given question balck sides are opposite to each other. Hence answer will be C

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Question 41

How many cubes are there in the group?
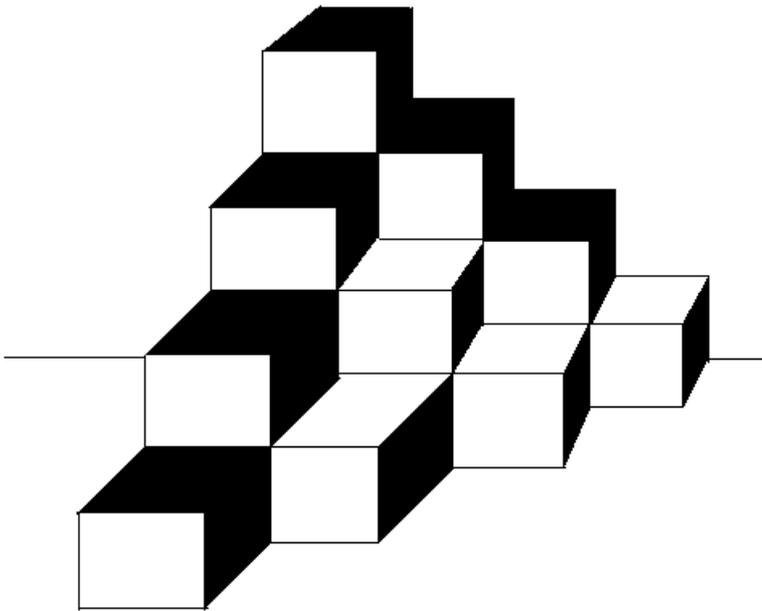
A   10

B   16

C   18

D   20

   Answer: D

Explanation:
The cubes form a regular ladder like structure. Thus, there are equal number of cubes supporting these cubes underneath them as there are visible ones.

Thus, total number of cubes = $2\times$ visible number of cubes

= $2 \times 10 = 20$

=> Ans - (D)

Question 42

Which one of the following diagrams best depicts the relationship among Earth, Sea and Sun?

A

B

C

D
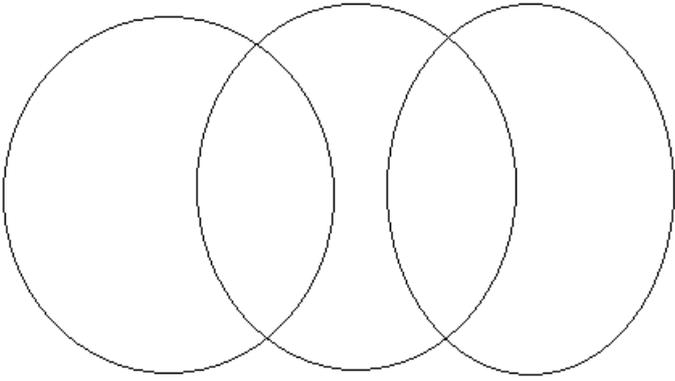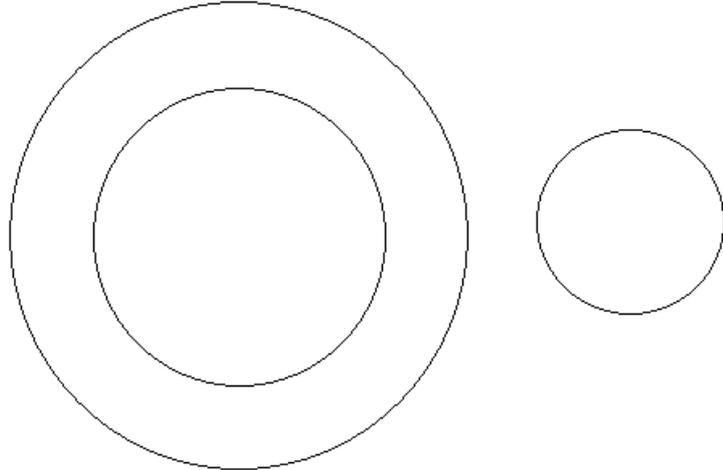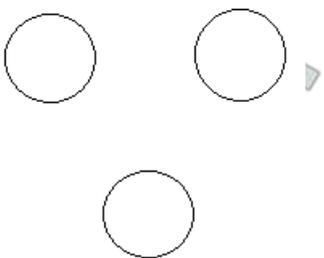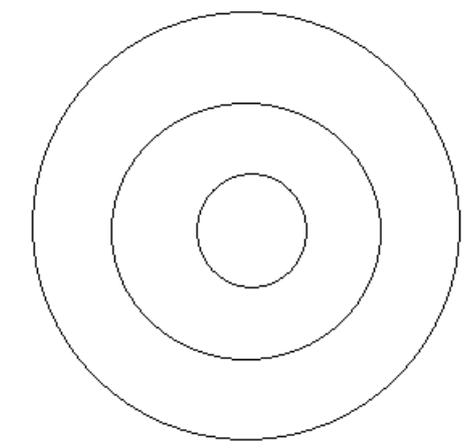
Answer: B

Explanation:
As we know that earth is surrounded by sea and sun is away from earth.
The only set which is depicting this relationship is in option B

Question 43

Read the figure and find the region representing persons who are educated and employed but not confirmed.
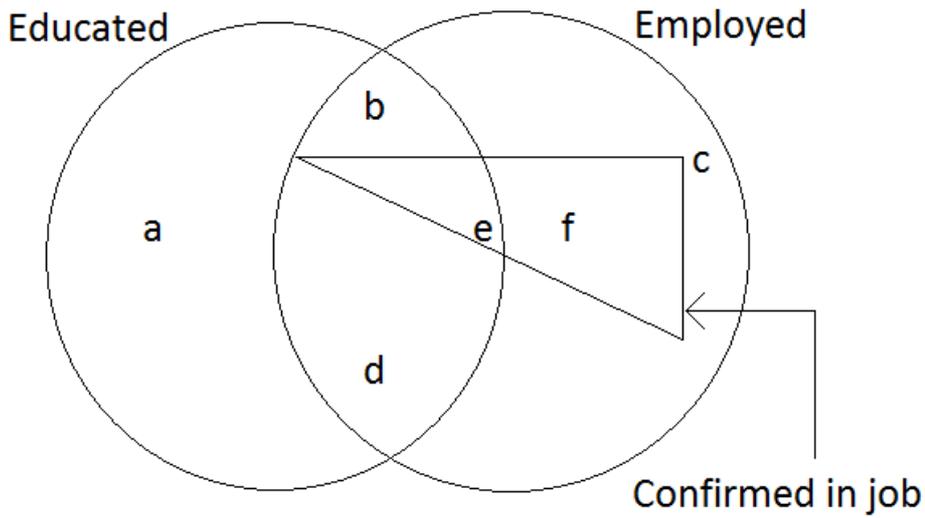
A ac

B abc

C bd

D adc

Answer: C

Explanation:
Total educated and employed are = b ,e and d
confirmed job among them = e
hence not confirmed job but educated and employed are b and d

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Question 44

In the given diagram, circle represents professionals, square represents dancers, triangle represents musicians and rectangle represents Europeans. Different regions in the diagram are numbered 1 to 11. Who among the following is neither a dancer nor a musician but is professional and not a European?
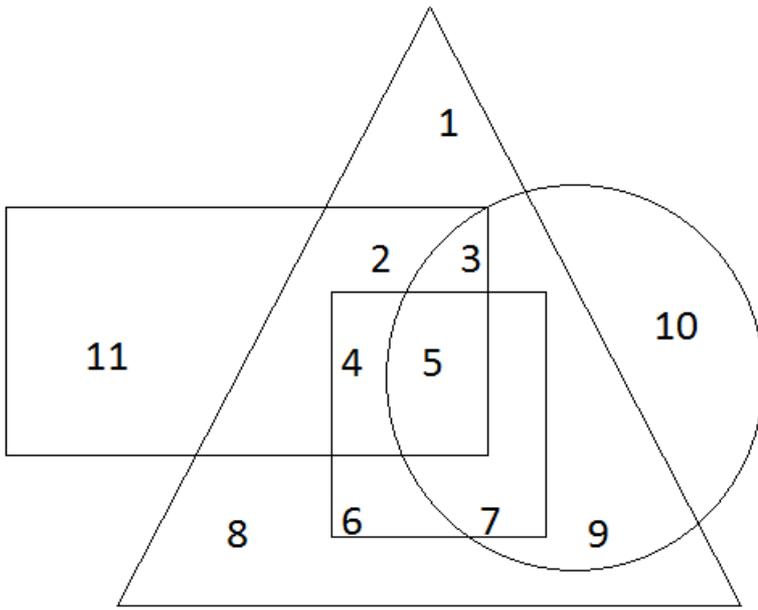
A 8

B 11

C 1

D 10

Answer: D

Explanation:

Among all the options only 10 comes in a circle which is for a professional and not for a dancer, musician or european.

Question 45

In this question which answer figure completes the pattern in the question figure?

A

B

C

D
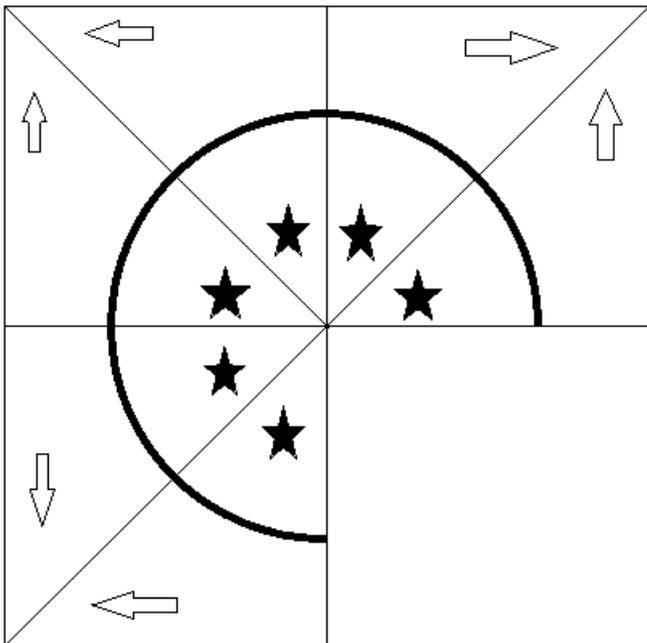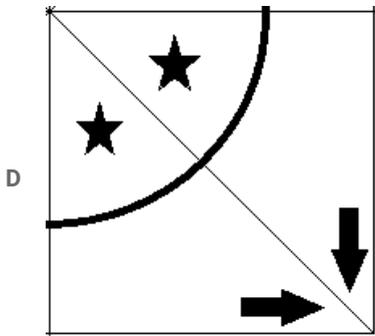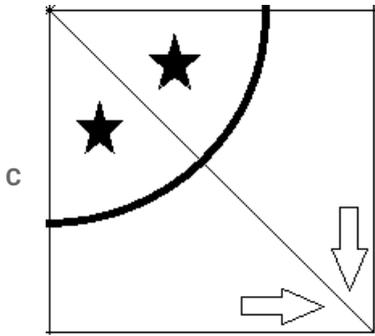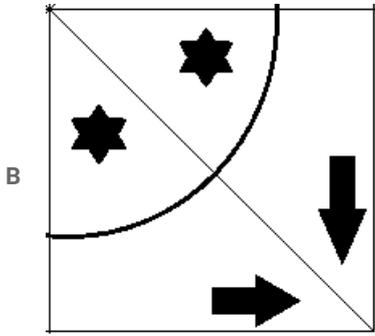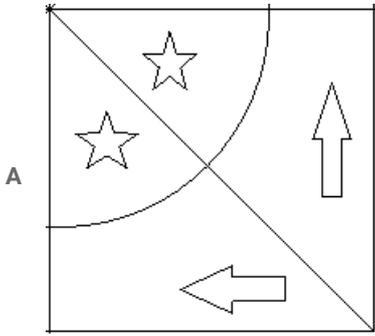
Answer: C

Explanation:
Given arrows in diagram are black and one is facing downward and one is facing towards right.
The only option which is representing this scenario is option C.

Question 46
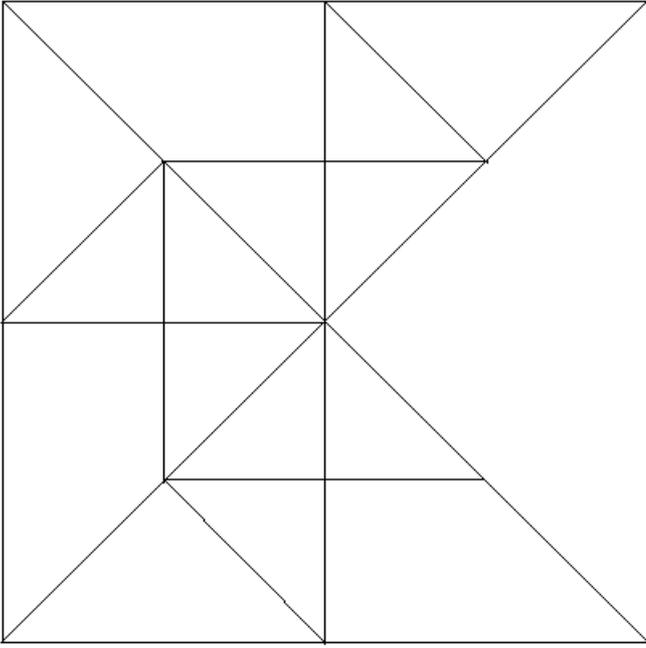
In these questions which answer figures will complete the pattern in the question figure?

A

B

C

D
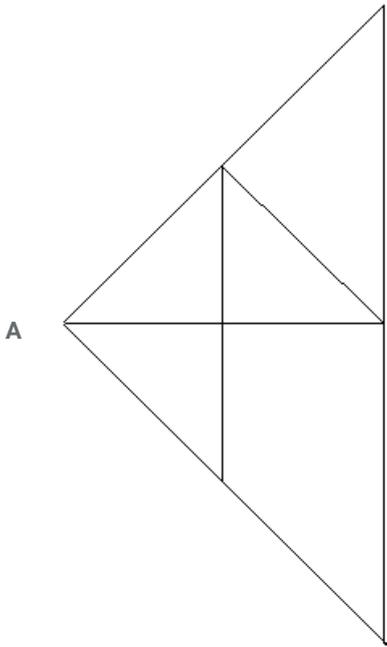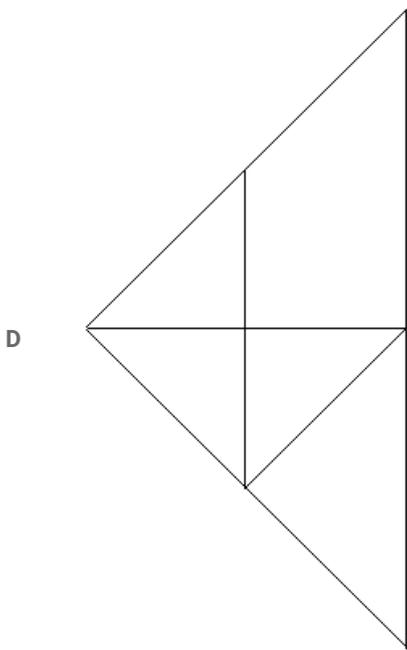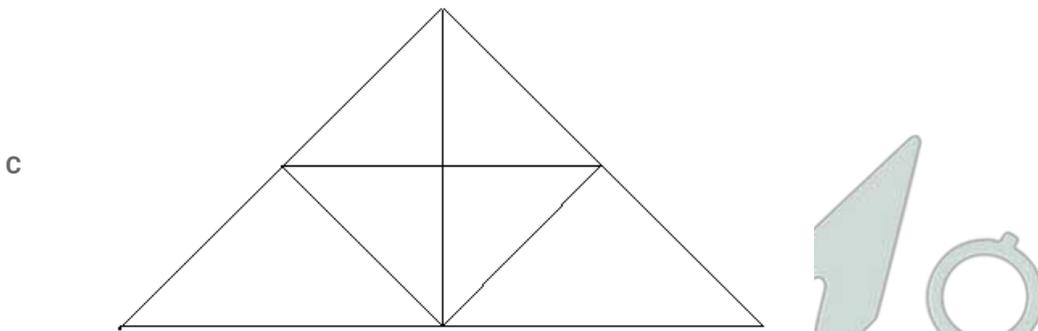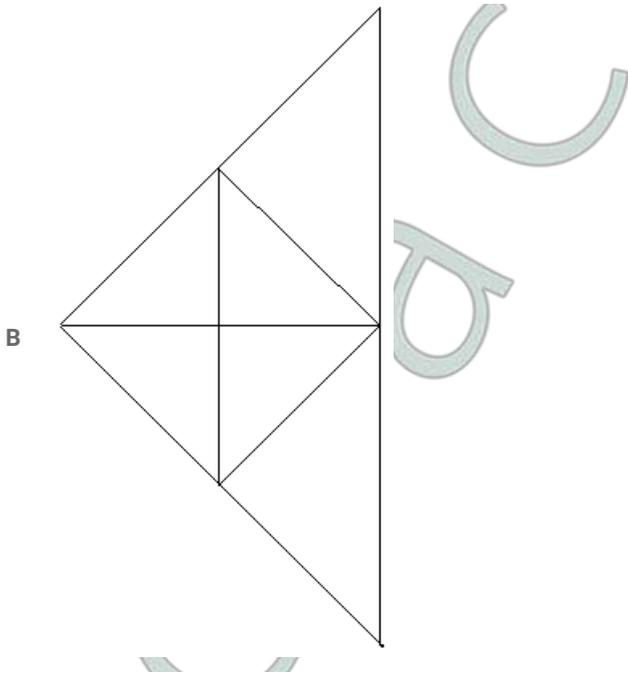
Answer: D

Explanation:

While selecting a figure we will see three aspects of it

1. Fitting the whole figure 2.Completing the middle square 3. Following pattern of 2 triangles which is having one side starting from the adjacent to its previous structure.

Option C don't follow first requirement

Option A and B don't follow 3rd requirement

Hence our answer will be D as it is following all requirements.

Question 47

Which of the answer figures includes the separate components found in the question figure?

A

B

C

D
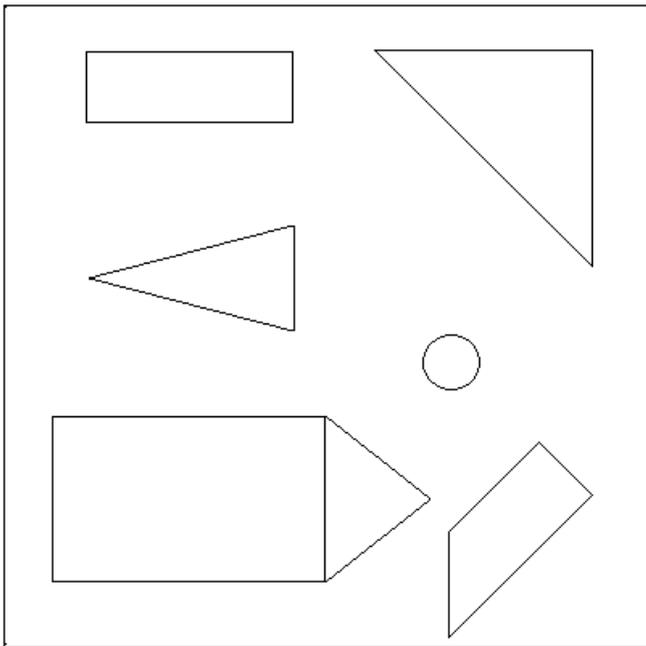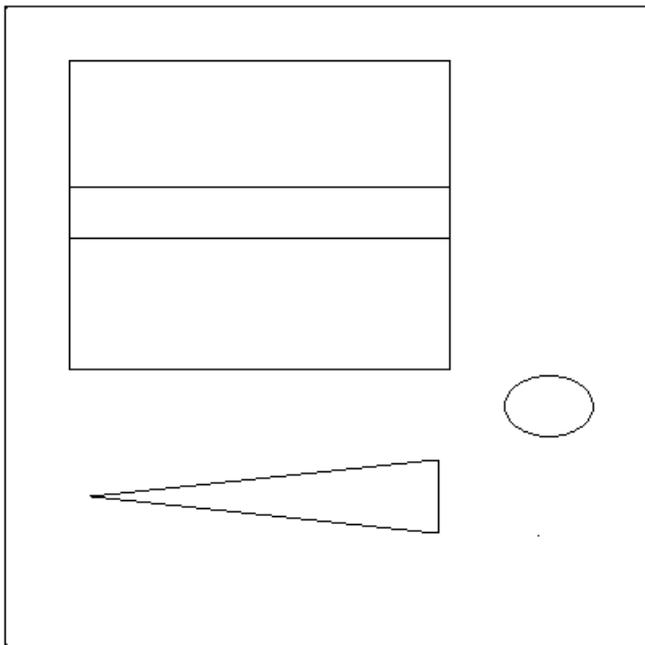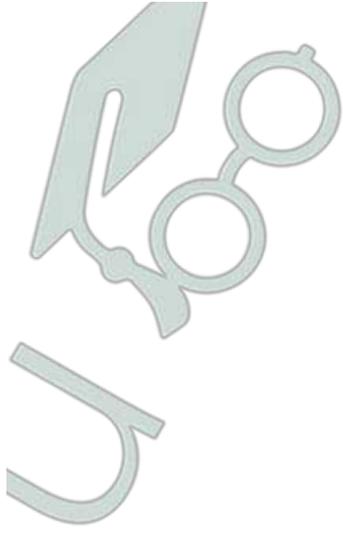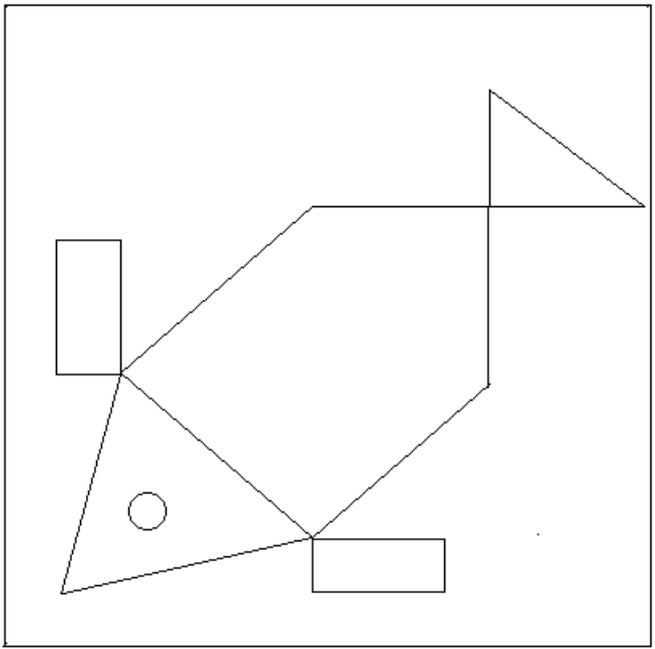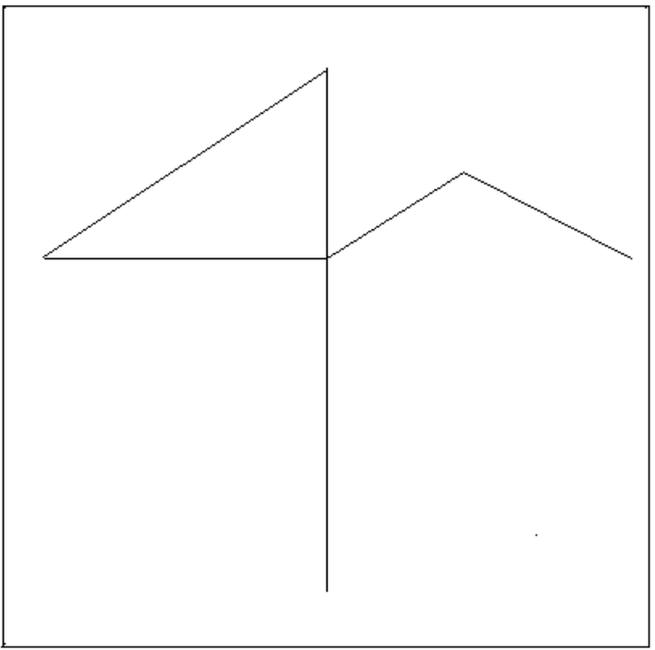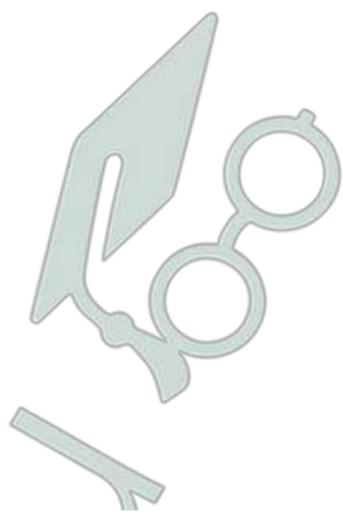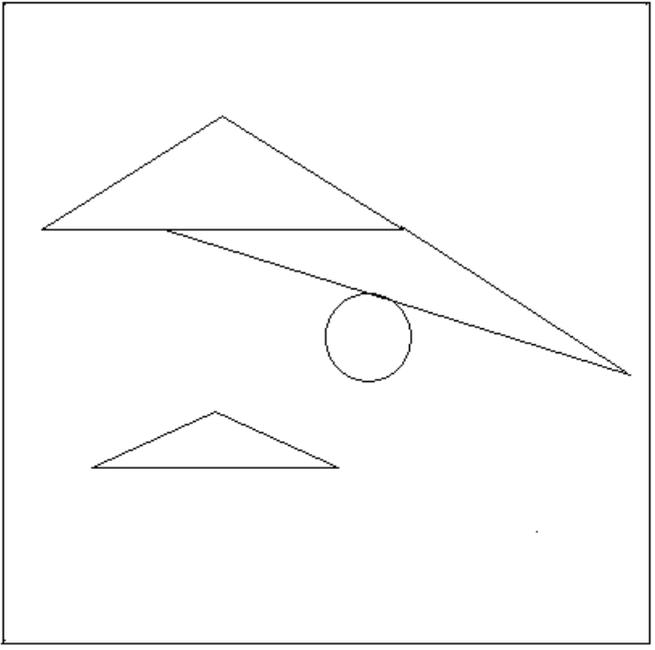
Answer: B

Options a) and d) do not include the trapezium. Option c) does not include the circle. Option b) includes all the figures.

Question 48

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

A

B

C

D
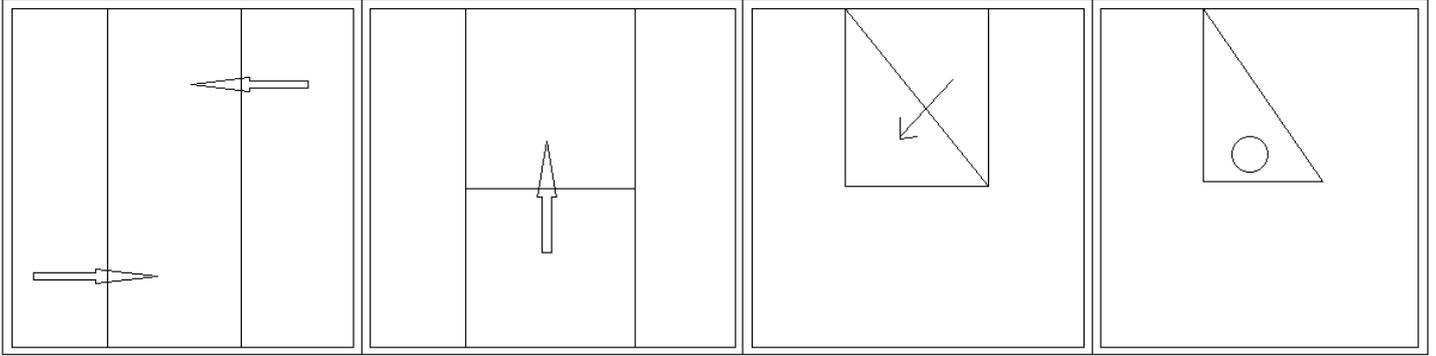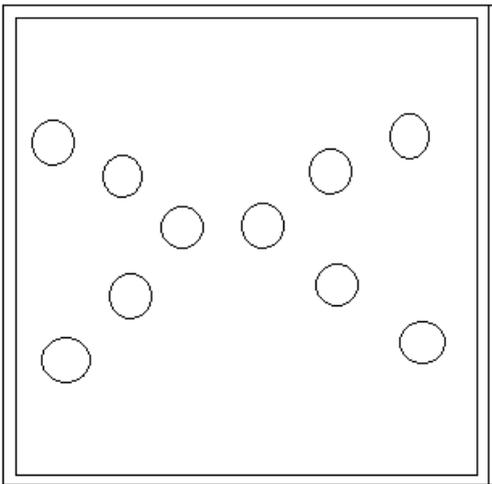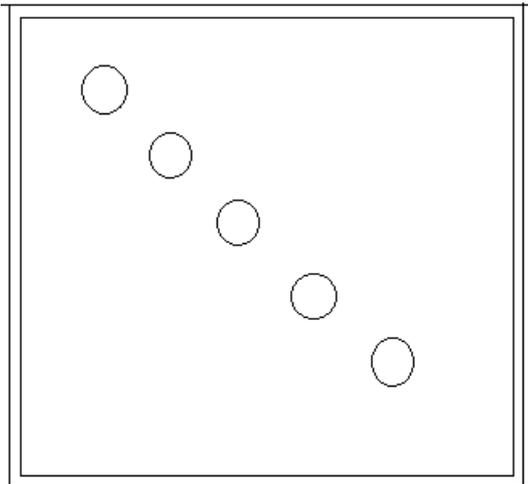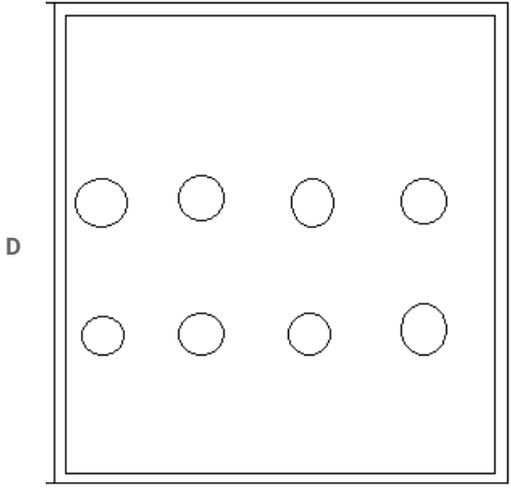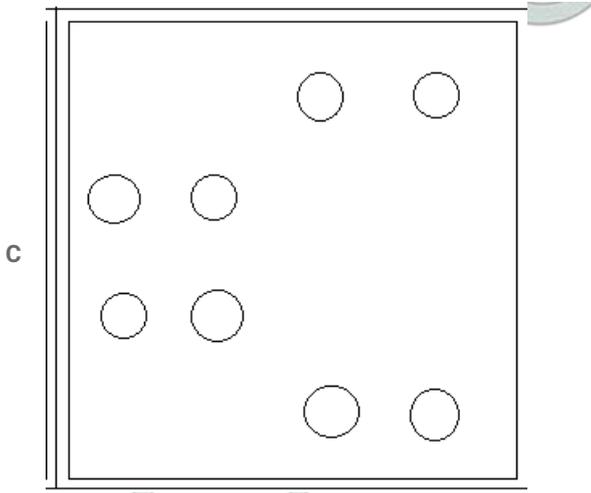
Answer: C

Question 49

Which number comes next?

1,2,5,26,?

A 677

B 47

C 626

D 59

   Answer: A

Explanation:
Series is such as $(next\ digit) = (previous\ digit)^2 + 1$
hence 5th number will be = $26^2 + 1 = 677$

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Question 50

A word is represented by only one set of numbers as given in anyone of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as in two matrices given below. 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, e.g., 'D' can be represented by 02, 14 etc. and 'R' can be represented by 57, 76 etc. Similarly, you have to identify the set for the word 'BEST'.

Matrix 1

	0	1	2	3	4
0	B	C	D	E	F
1	E	F	B	C	D
2	C	D	E	F	B
3	F	B	C	D	E
4	D	E	F	B	C

Matrix 2

|	5	6	7	8	9
5	P	Q	R	S	T
6	S	T	P	Q	R
7	Q	R	S	T	P
8	T	P	Q	R	S
9	R	S	T	P	Q

A   24, 22, 76, 97

B   24, 21, 77, 97

C   24, 22, 77, 97

D   24, 22, 77, 96

 Answer: C

Explanation:
As mentioned in question, number 02 will represent word at 0th row and 2nd coulmn i.e. 2
hence for BEST word
number 24 will have 2nd row and 4th column word i.e. B
number 22 will have 2nd row and 2nd coulmn word i.e. E
number 77 will have 7th row and 7th coulmn word i.e. S
number 97 will have 9th row and 7th coulmn word i.e. T

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General Awareness

Instructions
For the following questions answer them individually

Question 51

Social accounting system in India classified into is

A   enterprise, households and government

B   assets, liabilities and debt position

C   public sector, private sector and joint sector

D   income, product and expenditure

Answer: C

Question 52

Forced savings refer to

A   taxes on individual income and wealth

B   compulsory deposits imposed on income tax payers

C   provident fund contribution of private sector employees

D   reduction of consumption consequent to a rise in prices

   Answer: D

Question 53

The demand for labour is called

A   direct demand

B   derived demand

C   factory demand

D   market demand

   Answer: C

Question 54

Which of the following is not an investment expenditure in goods and services?

A   Purchase of a house

B   Purchase of a machinery

C   An increase in business inventories

D   Expansion of the main plant of a company

   Answer: C

Question 55

Which one of the following represents the savings of the private corporate sector?

A   Total profits of a company

B   Undistributed profits

C   Excess of income over expenditure

D   Dividends paid to share holders

   Answer: A

Question 56

Who presides over the joint session of Indian Parliament?

A   President of India

B   Chairperson of Rajya Sabha

C   Senior most Member of Parliament

D   Speaker of Lok Sabha

Answer: D

Question 57

Division of powers and independent Judiciary are the two important features of

A   unitary form of Government

B   democratic form of Government

C   federal form of Government

D   socialist form of Government

Answer: C

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Question 58

Which article of the Indian Constitution did Dr BR Ambedkar term as the 'Heart and Soul of the Indian Constitution'?

A   Article 19

B   Article 356

C   Article 32

D   Article 14

Answer: C

Question 59

Who was the first to use the term 'State'?

A   Plato

B   Aristotle

C   Machiavelli

D   Hobbes

Answer: C

Question 60

Under which article of the Constitution of India, can the fundamental rights of the members of the Armed Forces be specifically restricted?

A   Article 19

B   Article 21

C   Article 25

D   Article 33

Answer: D

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Question 61

Pulakesin II was the greatest ruler of the

A   Chvalukyas of Badami

B   Chalukyas of Kalyani

C   Pallavas of Kanchi

D   Cholas of Tamil Nadu

Answer: A

Question 62

The Uttaramerur inscription provides information on the administration of the

A   Satavahanas

B   Pallavas

C   Cholas

D   Chalukyas

Answer: C

Question 63

Pitts India Act of 1784 was a/an

A   regulating act

B   ordinance

C   resolution

D   white paper

Answer: B

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Question 64

Which one of the following statements is not true in respect of AO Hume?

A He was a member of the Indian Civil Service

B He founded the Indian National Congress

C He presided over the Congress Annual Sessions twice

D He was an ornithologist

Answer: C

Question 65

Which of the following movements saw the biggest peasant guerilla war on the eve of independence?

A Tebhaga Movement

B Punnapra Vayalar Movement

C Telangana Movement

D Noakhali Movement

Answer: A

Question 66

Maps on large scale, representing both natural and man-made features are called

A Topographic maps

B Thematic maps

C Atlas maps

D Wall maps

Answer: A

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Question 67

Which river in India flows in a rift-valley?

A Tapti

B Narmada

C Krishna

D Cauvery

Answer: B

Question 68

A narrow strip of land that connects two larger land masses is called

A peninsula

B cape

C isthmus

D strait

   Answer: C

Question 69

Tiny marine animals which constitute limestone skeletons are called

A foraminifera

B coral reefs

C diatoms

D clamitomonous

   Answer: B

General Science Notes for SSC CGL

Question 70

Apatanis are the major tribal group of

A Nagaland

B Sikkim

C Arunachal Pradesh

D Jharkhand

   Answer: C

Question 71

Which of the following plant pigments absorbs in red and far-red region of light?

A Chlorophyll

B Phytochrome

C Cryptochrome

D Carotenoids

   Answer: A

Question 72

The process through which excess of light energy is dissipated in photosynthesis is known as

A scavenging

B photolysis

C photophosphorylation

D quenching

Answer: B

Question 73

AIDS virus destroys

A rnonocytes

B neutrophils

C basophils

D lymphocytes

Answer: D

Question 74

Teeth and Bones acquire strength and rigidity from

A fluorine

B chlorine

C sodium

D calcium

Answer: D

Question 75

The type of tail found in Shark is

A homocercal

B heterocercal

C diphycercal

D protocercal

Answer: B

Question 76

The Sigmoid Colon is part of

A anal canal

B large Intestine

C ileum

D small Intestine

Answer: B

Question 77

A good conductor while carrying current is

A negatively charged

B positively charged

C electrically neutral

D alternately charged positive and negative

Answer: A

Question 78

The angle between the magnetic meridian and the geographical meridian at a place is

A dip

B declination

C latitude

D azimuth

Answer: B

Question 79

The device used for measuring the wavelength of X-rays is

A cyclotron

B bragg spectrometer

C mass spectrometer

D GM counter

Answer: B

Question 80

Alpha particle is the nucleus of an atom of

A hydrogen

B helium

C oxygen

D lthium

Answer: B

Question 81

Who is the founder of 'Facebook' ?

A   Martin Cooper

B   Orkut Buyukkokten

C   Mark Zuckerberg

D   Bill Gates

   Answer: C

Question 82

In programming, repeating some statements is usually called

A   structure

B   looping

C   control structure

D   compiling

   Answer: B

Question 83

Silicon is a polymer of

A   Silicon tetrachloride

B   Dialkyl dichloro silane

C   Silane

D   Tetraalkyl silane

   Answer: A

Question 84

Which is a natural colloid?

A   Urea

B   Cane-sugar

C   Blood

D   Sodium chloride

   Answer: B

Question 85

Which one of the following does not contain silver?

A Lunar caustic

B German silver

C Horn silver

D Ruby silver

  Answer: B

Question 86

The presence of cobalt in vitamin B12 was established for the first time by

A spectroscopy

B borax-Bead test

C sodium nitroprusside test

D hydrolysis test

  Answer: B

Question 87

Which bacterial strain developed from natural isolates by genetic manipulations can be used for treating oil spills?

A Agrobacterium

B Clostridum

C Nitrosomonas

D Pseudomonas

  Answer: A

Question 88

Coating of solid waste with impervious material is known as

A Chemical fixation

B landfill

C capping

D encapsulation

  Answer: B

Question 89

Ultraviolet rays can used in water treatment as

A precipitator

B hydrolyser

C disinfectant

D flocculator

Answer: C

Question 90

Thiamidine dimer formation in DNA is caused by

A X-rays

B b and g -rays

C UV-rays

D IR-rays

Answer: C

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Question 91

Winner of the Australian Open Men's Singles Title in 2013 is

A Andy Murray

B Rogaer Federer

C Novak Djokovic

D David Ferrer

Answer: C

Question 92

Who among the following Presidents of MCC was a non-professional cricketer?

A Colin Cowdrey

B Peter May

C Christopher Martin Jenkin

D Ted Dexter

Answer: C

Question 93

Who won the Nobel Prize for Peace in 2012?

A UN Intergovernmental Panel on Climate Change

B International Atomic Energy Agency

C Liu Xiaobo

D European Union

Answer: D

Question 94

Who won the Jnanpith Award for 2011?

A Sitakant Mahapatra

B Sachidananda Routray

C Pratibha Ray

D Gopinath Mohanty

Answer: C

Question 95

Who is the author of the book 'No Full Stops in India'?

A Ved Mehta

B Nirad C Choudhuri

C Mark Tully

D RK Narayan

Answer: C

Question 96

Which one of the following pairs is wrongly matched?

A Red Square - Moscow

B Tiananmen Square - Beijing

C Tahrir Square - Abu Dhabi

D Trafalgar Square - London

Answer: C

Question 97

The term of a non-permanent member of the UN Security Council is

A 6 months

B 1 yr

C 2 yr

D 3 yr

Answer: C

Question 98

Who is the Chairman of the 20th Law Commission?

A Justice JS Verma

B Justice KG Balakrishnan

C Justice DK Jain

D Justice Usha Mehra

Answer: C

Question 99

Julia Gillard is the Prime Minister of

A Belgium

B Canada

C Australia

D New Zealand

Answer: C

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Question 100

Which is the first state in India to pass the Food Security Law?

A Kerala

B Chhattisgarh

C Gujarat

D Punjab

Answer: B

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Quant

Instructions

For the following questions answer them individually

Question 101

A and B together can complete a piece of work in 12 days, B and C can do it in 20 days and C and A can do it in 15 days. A, B and C together can complete it in

A 6 days

B 8 days

C 10 days

D 12 days

    Answer: C

Explanation:

A + B together will do $\frac{1}{12}$ amount of work in 1 day

B + C together will do $\frac{1}{20}$ amount of work in 1 day

C + A together will do $\frac{1}{15}$ amount of work in 1 day

So $2(A + B + C) = \frac{1}{12} + \frac{1}{20} + \frac{1}{15}$

Or A,B and C together will do $\frac{1}{10}$ amount of work in 1 day.
Hence unit work will be done in 10 days.

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Question 102

A and B together can complete a work in 3 days. They start together but, after 2 days, B left the work. If the work is completed after 2 more days, B alone could do the work in

A 4 days

B 6 days

C 8 days

D 10 days

    Answer: B

Explanation:

A and B complete a work in 3 days so in 1 day they do $\frac{1}{3}$ amount of work.
So in 2 days $\frac{2}{3}$ amount of work is done and $\frac{1}{3}$ work is left which is done by A in two days
Hence A does $\frac{1}{6}$ amount of work in a day and also B does $\frac{1}{6}$ amount of work in a day.
So B will do unit work in 6 days.

Question 103

A does 20% less work than B. If A can complete a piece of work in 15/2 h, then B can do it in

A 4 h

B 6 h

C 8 h

D 10 h

    Answer: B

Explanation:

A does a work in $\frac{15}{2}$ hr., hence in 1 hour work done by A is $\frac{2}{15}$
hence work done by B will be $\frac{2}{15} \cdot \frac{100}{80} = \frac{1}{6}$ in 1 hour

Hence unit work will be done in 6 hour.

Question 104

A rational number between 3/4 and 3/8 is

A 7/3

B 16/9

C 9/16

D 1/7

   Answer: C

Explanation:
Among all options only in option C, 9/16 is coming in between 3/4 and 3/8
Hence answer should be C.

Question 105

Product of two coprime numbers is 117. Then their LCM is

A 9

B 13

C 39

D 117

   Answer: D

Explanation:
Let the two numbers be a,b.
Hence a * b = L.C.M(a,b) * G.C.D(a,b)
It is given that a,b are co-primes, implies G.C.D(a,b) = 1
Hence from the above equation we get L.C.M(a,b) = a*b = 117

Question 106

The diameters of two circles are the side of a square and the diagonal of the square. The ratio of the areas of the smaller circle and the larger circle is

A 1:4

B $\sqrt{2} : \sqrt{3}$

C $1 : \sqrt{2}$

D 1 : 2

   Answer: D

Explanation:
Let's say side of square is x.
Hence length of diagonal will be $\sqrt{2}x$
Since these lengths are diameters of circles, Hence ratio of their area would be
$\pi(r_1)^2 : \pi(r_2)^2$ (where r_1 is radius of smaller circle and r_2 is radius of larger circle)

or $\frac{x^2}{4}$: $\frac{2x^2}{4}$

or 1:2

Question 107

The total surface area of a sphere is 8π square unit. The volume of the sphere is

A $\quad \frac{8}{3}\pi$

B $\quad 8\sqrt{3}\pi$

C $\quad \frac{8\sqrt{3}}{5}\pi$

D $\quad \frac{8\sqrt{2}}{3}\pi$

Answer: D

Explanation:
Let the radius of the sphere be 'r'
Hence $4\pi r^2 = 8\pi$
=> r = $\sqrt{2}$
Volume of the cube = $\frac{4}{3}\pi r^3$ = $\frac{4}{3}\pi\sqrt{2}^3$ = $\frac{8\sqrt{2}}{3}\pi$

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Question 108

A conical flask is full of water. The flask has base radius r and height h. This water is poured into a cylindrical flask of base radius mr. The height of water in the cylindrical flask is

A $\quad \frac{h}{2}m^2$

B $\quad \frac{2h}{m}$

C $\quad \frac{h}{3m^2}$

D $\quad \frac{m}{2h}$

Answer: C

Explanation:

Volume of water in flask = $\frac{\pi r^2 h}{3}$ (where h is height of water in conical flask)
Volume of water in cylinder = $\pi m^2 r^2 h_1$ (where h_1 is height of water in cylinderical flask)
Hence now $\frac{\pi r^2 h}{3}$ = $\pi m^2 r^2 h_1$
or $h_1 = \frac{h}{3m^2}$

Question 109

A dozen pairs of socks quoted at Rs. 180 are available at discount of 20%. How many pairs of socks can be bought for Rs. 48?

A 4 pairs

B 2 pairs

C 5 pairs

D 3 pairs

Answer: A

Explanation:
12 socks are of price 180 rs.
Hence price of 1 sock is 15 rs.
4 socks will be having price of 60 rs. and after 20% discount their price will be 48 rs.

Question 110

The marked price of a table is Rs. 12000. If it was sold for Rs. 10500 after allowing a certain discount, then the rate of discount is

A 10%

B 12.5%

C 15%

D 17.5%

   Answer: B

Explanation:
Marked price = 12000
Sold price = 10500
Discount = 1500
%Discount = $\frac{1500}{12000} \times 100$ = 12.5%

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Question 111

The marked price of a radio set is Rs. 480. The shopkeeper allows discount of 10% and gains 8%. If no discount is allowed, his gain percent would be

A 18%

B 18.5%

C 20%

D 25%

   Answer: C

Explanation:
Marked price = 480
Sold price after giving discount will be = $\frac{480 \times 90}{100}$ = 432
Gain = 8%
 As when cost price is 100 and gain is 8% sold price is 108 so when sold price is 432 then cost price will be $\frac{432}{1.08} = 400$
Now without discount sold price will be 480 , hence gain is 80 rs.
%gain = $\frac{80 \times 100}{400}$

Question 112

The prices of a school bag and a shoe are in the ratio 7 : 5. The price of school bag is Rs. 200 more than the price of a shoe. Then, the price of a shoe is

A Rs. 700

B Rs. 500

C Rs. 1200

D Rs. 200

    Answer: B

Explanation:

When difference in ratio of prices is 2 price of shoe is 5

When difference is 200 price will be = $\frac{5 \times 200}{2}$ = 500 rs.

Question 113

A sum of Rs. 300 is divided among P, Q and R in such a way that Q gets Rs. 30 more than P and R gets Rs. 60 more than Q. The ratio of their shares is

A 2 : 3 : 5

B 3 : 2 : 5

C 2 : 5 : 3

D 5 : 3 : 2

    Answer: A

Explanation:

Q's share = P's share + 30

R's share = Q's share + 60

Total = 300 = P's share +Q's share+ R's share

or 300 = 3P's share + 120

or P's share = 60

So Q's share will be 90

And R's share will be 150

Ratio will be 2:3:5

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Question 114

The average of nine numbers is 50. The average of the first five numbers is 54 and that of the last three numbers is 52. Then, the sixth number is

A 34

B 24

C 44

D 30

    Answer: B

Explanation:

Average of 9 numbers = 50

Hence sum of 9 numbers = 450

Average of last three numbers = 52

Hence sum of them will be = 156

Average of first five numbers is = 54

Hence sum of them will be = $54 \times 5 = 270$

So 6th number will be = sum of 9 numbers - (sum of first five numbers + sum of last three numbers)

                = 450 - (156+270) = 24

Question 115

The average of the first nine integral multiples of 3 is

A 12

B 15

C 18

D 21

    Answer: B

Explanation:

As we know average of numbers which are in A.P. is = $\frac{a+l}{2}$ (where a is first term and l is last term)
Here a=3
and l= 27
Hence average will be 15

Question 116

An article is sold for Rs. 300 at a profit of 20%. Had it been sold for Rs. 235, the loss percentage would have been

A 3

B 5

C 6

D 16

    Answer: C

Explanation:

Selling price = 300
Profit = 20%
Hence cost price = $\frac{300 \times 100}{120}$ = 250
Now when selling price is 235
loss is 15 rs.
%loss will be = $\frac{15 \times 100}{250}$ = 6

General Science Notes for SSC CGL

Question 117

A box has 100 blue balls, 50 red balls and 50 black balls. 25% of blue balls and 50% of red balls are taken away. Then, percentage of black balls at present is

A 25%

B 100/3%

C 40%

D 50%

    Answer: B

Explanation:

Initially there were 100 blue balls, 50 red balls and 50 black balls.
After taking away there will remain 75 blue balls, 25 red balls and 50 black balls , a total of 150 balls

Hence percentage of black balls will be $\frac{50 \times 100}{150} = \frac{100}{3}$

Question 118

Two cars are moving with speeds $v1$ and $v2$ towards a crossing along two roads. If their distance from the crossing be 40 m and 50 m at an instant of time, then they do not collide, if their speeds are such that

A $v_1 : v_2 \neq 4 : 5$

B $v_1 : v_2 \neq 5 : 4$

C $v_1 : v_2 = 16 : 25$

D $v_1 : v_2 = 25 : 16$

Answer: A

Explanation:
they will collide if time to reach the crossing is same.

it is the case when

time taken by 1st car = time taken by 2nd car.

40/v1 = 50/v2

v1/v2 = 4/5

but condition not to collide is v1/v2 $\neq$ 4/5.

so the answer is option A.

Question 119

A certain distance is covered at a certain speed. If half of this distance is covered in double the time, the ratio of the two speeds is

A 4 : 1

B 1 : 4

C 2 : 1

D 1 : 2

Answer: B

Explanation:
Initial speed is v_1 (say), distance is d and time taken is t. So $v_1 = \frac{d}{t}$
Now half of distance ($\frac{d}{2}$) is covered in time 2t. So $v_2 = \frac{d}{2 \times 2t}$
Hence $v_1 : v_2 = \frac{d}{t} : \frac{d}{2 \times 2t}$
= 4:1

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Question 120

The simple interest on Rs. 4000 in 3 yr at the rate of x per annum equals to the simple interest on Rs. 5000 at the rate of 12% per annum in 2 yr. The value of x is

A 6%

B 8%

C 9%

D 10%

   Answer: D

Explanation:

As we know interest value will be $= Principal \times \frac{rate}{100} \times time$

So $4000 \times \frac{x}{100} \times 3 = 5000 \times \frac{12}{100} \times 2$

or x will be=10%

Question 121

If $x^2 - 3x + 1$, then value of $x^2 + x + \frac{1}{x} + \frac{1}{x^2}$ is

A 2

B 6

C 8

D 10

   Answer: D

Explanation:

Given $x^2 - 3x + 1 = 0$

or $x^2 - 3x = -1$

or $(x - 3) = \frac{-1}{x}$

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

Now according to given question $x + \frac{1}{x} + x^2 + \frac{1}{x^2}$

or $x + \frac{1}{x} + (x + \frac{1}{x})^2 - 2$

After putting value of $x + \frac{1}{x}$ in above equation , it will get reduced to 10.

Question 122

If $\frac{4x-3}{x} + \frac{4y-3}{y} + \frac{4z-3}{z} = 0$, then the value of $\frac{1}{x} + \frac{1}{y} + \frac{1}{z}$ is

A 3

B 4

C 6

D 9

   Answer: B

Explanation:

Given $\frac{4x-3}{x} + \frac{4y-3}{y} + \frac{4z-3}{z} = 0$

or $12 + (-3)(\frac{1}{x} + \frac{1}{y} + \frac{1}{z})$=0

Hence

$(\frac{1}{x} + \frac{1}{y} + \frac{1}{z})$=4

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Question 123

Find the simplest value of $2\sqrt{50} + \sqrt{18} - \sqrt{72}$ **is __?** ($\sqrt{2} = 1.414$).

A 9.898

B 10.312

C 8.484

D 4.242

   Answer: A

Explanation:

Given equation can be reduced in the form of $10\sqrt{2} + 3\sqrt{2} - 6\sqrt{2} = 7\sqrt{2}$

Hence $7\sqrt{2}$ will be around 9.898

Question 124

If $a^2 + b^2 + 4c^2 = 2(a + b - 2c - 3)$ and a, b, c are real, then the value of $(a^2 + b^2 + c^2)$ is

A 13/4

B 2

C 9/4

D 3

   Answer: C

Explanation:

$a^2 + b^2 + 4c^2 = 2(a + b - 2c - 3)$

So, $(a - 1)^2 + (b - 1)^2 + (2c + 1)^2 = 0$

Or, $a = 1, b = 1, c = \frac{-1}{2}$

So, $a^2 + b^2 + c^2 = 1 + 1 + \frac{1}{4} = \frac{9}{4}$

Question 125

A number x when divided by 289 leaves 18 as the remainder. The same number when divided by 17 leaves y as a remainder. The value of y is

A 2

B 3

C 1

D 5

   Answer: C

Explanation:

The number is of the form 289n+18.

Which is equal to 17*(17n+1) +1

So, when the number is divided by 17, the reminder is 1

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Question 126

An equation of the form ax + by + c = 0. Where, a ≠ 0, b ≠ 0 and c = 0 represents a straight line which passes through

A (2, 4)

B (0, 0)

C (3, 2)

D None of these

   Answer: B

Explanation:

As c=0, and substituting the point (0,0) in the equation, we get ax+by+c = 0 at the point (0,0).
Hence, the line passes through origin.

Question 127

The numerator of a fraction is 4 less than its denominator. If the numerator is decreased by 2 and the denominator is increased by 1, then the denominator becomes eight times the numerator. Find the fraction.

A $\frac{3}{7}$

B $\frac{4}{8}$

C $\frac{2}{7}$

D $\frac{3}{8}$

   Answer: A

Explanation:

Let's say x is denominator, Hence numerator will be $x - 4$
Now after decreasing numerator by 2 , it will be $x - 6$ and increasing denominator by 1 , it will be $x + 1$
So $8(x - 6) = x + 1$
x = 7
And fraction will be = $\frac{3}{7}$

Question 128

If $x^2 = y + z, y^2 = z + x, z^2 = x + y$, **then the value** $\frac{1}{1+x} + \frac{1}{1+y} + \frac{1}{1+z}$

A 1

B 2

C 0

D -1

   Answer: A

Explanation:

$x^2 = y + z$
$y^2 = z + x$
on substracting above two eq. we will get
$x^2 - y^2 = y - x$
So either $x = y$
or $x + y = -1$ (it is not possible as z^2 can not be negative)
So $x = y = z = 2$
So given eq. will reduce to a value 1

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Question 129

In a triangle ABC, $\angle A = 90^o$, $\angle C = 55^o$, AD is perpendicular to BC. What is the value of $\angle BAD$?

A   60 °

B   45 °

C   55 °

D   35 °

   Answer: C

Explanation:
$\angle A = 90^o$
$\angle C = 55^o$
$\angle B$ will be $180 - (90 + 55) = 35^o$
As AD is perpendicular to BC Hence $\angle BAD = 180 - (90 + 35) = 55^o$

Question 130

If G is the centroid of triangle ABC and area of triangle ABC = 48cm ^{2}, then the area of triangle BGC is

A   8 cm^2

B   16 cm^2

C   24 cm^2

D   32 cm^2

   Answer: B

Explanation:

As we know area of triangle, with centroid as one of the vertices and remaining 2 triangle vertices, is $\frac{1}{3}$ rd of the area of whole triangle. Hence area will be $\frac{48}{3}$ = 16

Question 131

The diagonals AC and BD of a cyclic quadrilateral ABCD intersect each other at the point P. Then, it is always true that

A   AP . CP = BP . DP

B   AP . BP = CP . DP

C   AP . CD = AB . CP

D   BP . AB = CD . CP

   Answer: A

Explanation:
As we know that a cyclic quadrilateral can be inscribed into a circle, Hence in triangle APB and in triangle CPD.

$\angle PAB = \angle PDC$ (same sector angles)

$\angle PCD = \angle PBA$ (same sector angles)

Hence third angle will also be equal and they will be similar triangles.

So $\frac{AP}{PD} = \frac{BP}{PC}$

Question 132

N is the foot of the perpendicular from a point P of a circle with radius 7 cm, on a diameter AB of the circle. If the length of the chord PB is 12 cm, the distance of the point N from the point B is

A $12\frac{2}{7}$

B $3\frac{5}{7}$

C $10\frac{2}{7}$

D $6\frac{5}{7}$

Answer: C

Explanation:

As we know $cos\theta = \frac{a^2+b^2-c^2}{2ab}$ (where θ is angle between sides a and b, side c is opposite to angle θ)
Hence for triangle POB (where O is centre of circle)
OP=OB=radius of circle=7
PB=12
Let's say angle between PB and OB is θ.
So putting up values and solving it, we will get $cos\theta = \frac{6}{7}$
Hence value of BN will be BP $cos\theta = 12cos\theta = \frac{72}{7}$

Question 133

If O be the circumcentre of a triangle PQR and $\angle QOR = 110^o, \angle OPR = 25^o$, then the measure of $\angle PRQ$ is

A 50 $^\circ$

B 55 $^\circ$

C 60 $^\circ$

D 65 $^\circ$

Answer: C

Explanation:

As we know circumcentre O is perpendicular bisector of sides of a triangle.
And $\angle QOR = 110^o$
and OQ=OR (radius) hence angles OQR and ORQ will be also be equal.
Which will have value equal to $\frac{180-110}{2} = 35^o$
Now angle OPR and PRO will also have equal value as 25°.
So angle PQR will be 35+25 = 60°

Question 134

A vertical stick 12 cm long casts a shadow 8 cm long on the ground. At the same time, a tower casts a shadow 40 m long on the ground. The height of the tower is

A 60 m

B 65 m

C 70 m

D 72 m

Answer: A

Explanation:
The proportions of the length of the shadow and the height of the tower are constant.
Let the height of the tower be 'h'
Hence, $\frac{h}{40} = \frac{12}{8}$
So, $h = 60$

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Question 135

A, B, C, D are four points on a circle. AC and BD intersect at a point such that $\angle BEC = 130^o$ and $\angle ECD = 20^o$. Then, $\angle BAC$ is

A 90 $^\circ$

B 100 $^\circ$

C 110 $^\circ$

D 120 $^\circ$

Answer: C

Explanation:
Angle ABD will be equal to angle ACD = 20° (same sector angles)
Angle BEC = 130° so angle AED = 130° (concurrent angles)
Now angle BEA will be $\frac{360-130-130}{2} = 50^o$
So angle EDC will be $180 - (50 + 20) = 110^o$

Question 136

In a triangle, if three altitudes are equal, then the triangle is

A equilateral

B right

C isosceles

D obtuse

Answer: A

Explanation:
It is property of equilateral triangle that length of all its altitutes are equal.

Question 137

The tops of two poles of height 24 m and 36 m are connected by a wire. If the wire makes an angle of 60 $^\circ$ with the horizontal, then the length of the wire is

A $8\sqrt{3}$

B 8

C $6\sqrt{3}$

D 6

Answer: A

Explanation:
Let's say height of bigger pole is 12+24.
Where length of wire will be hypotenuse, pole length of 12 in bigger pole will be perpendicular and distance between poles will be base.
And angle between base and hypotenuse will be θ
Hence length of wire will be = $12cosec\theta$ (where $\theta = 60^{o}$)
So length of wire will be = $12\frac{2}{\sqrt{3}} = 8\sqrt{3}$

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Question 138

The value of $\frac{1}{cosec\theta - cot\theta} - \frac{1}{sin\theta}$

A $cot\theta$

B $cosec\theta$

C $tan\theta$

D 1

Answer: A

Explanation:
$\frac{sin\theta}{1-cos\theta} - \frac{1}{sin\theta}$

or $\frac{cos\theta - cos^2\theta}{(1-cos\theta)sin\theta} = cot\theta$

Question 139

If $\cos\theta + \sin\theta = \sqrt{2}\cos\theta$, **then** $\cos\theta - \sin\theta$ **is**

A $-\sqrt{2}\cos\theta$

B $-\sqrt{2}\sin\theta$

C $\sqrt{2}\sin\theta$

D $\sqrt{2}\tan\theta$

Answer: C

Explanation:
$\sin^2\theta + \cos^2\theta = 1$
So, $\sin^2\theta + \cos^2\theta + 2\sin\theta*\cos\theta = 2\cos^2\theta$
Hence, $\cos^2\theta - \sin^2\theta = 2\sin\theta*\cos\theta$
So, $\cos\theta - \sin\theta = \sqrt{2}\sin\theta$

Question 140

If $tan\alpha = ntan\beta$ **and** $sin\alpha = msin\beta$, **then** $cos^2\alpha$ **is**

A $\frac{m^2}{n^2}$

B $\frac{m^2-1}{n^2-1}$

C $\frac{m^2+1}{n^2+1}$

D $\frac{m^2}{n^2-1}$

  Answer: B

Explanation:

$sin\alpha = msin\beta$

squaring on both sides

$1 - cos^2\alpha = m^2sin^2\beta$

As it is given $tan\alpha = ntan\beta$ or $sin\beta = \frac{tan\alpha \times cos\beta}{n}$ now squaring on both sides and putting value above

it will get reduce to $n^2cos^2\alpha = m^2cos^2\beta$

$cos^2\alpha = \frac{m^2}{n^2}(1 - \frac{sin^2\alpha}{m^2})$

Now solving above equation we will get value of $cos^2\alpha$ as $\frac{m^2-1}{n^2-1}$

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Question 141

If $cos^4\theta - sin^4\theta = \frac{2}{3}$, then the value of $1 - 2sin^2\theta$ is,

A 0

B $\frac{2}{3}$

C $\frac{1}{3}$

D $\frac{4}{3}$

  Answer: B

Explanation:

$cos^4\theta - sin^4\theta = (cos^2\theta - sin^2\theta)(cos^2\theta + sin^2\theta) = cos^2\theta - sin^2\theta = \frac{2}{3}$

$cos^2\theta - sin^2\theta = 1 - 2sin^2\theta = \frac{2}{3}$

Question 142

If $tan\theta$ = 3/4 and θ is acute, then $cosec\theta$ is equal to

A $\frac{5}{3}$

B 2

C $\frac{1}{2}$

D 4

  Answer: A

Explanation:

$\frac{sin\theta}{cos\theta} = \frac{3}{4}$

So, $\frac{sin^2\theta}{cos^2\theta} = \frac{9}{16}$

Hence, $sin^2\theta = \frac{9}{9+16} = \frac{9}{25}$

So, $cosec\theta = \frac{5}{3}$

Question 143

The value of $\frac{1}{1+tan^2\theta}$ + $\frac{1}{1+cot^2\theta}$ is

A 1

B 2

C $\frac{1}{2}$

D $\frac{1}{4}$

Answer: A

Explanation:
$1 + \tan^2\theta = \sec^2\theta$
$1 + \cot^2\theta = \csc^2\theta$
So, the given fraction becomes,

$\frac{1}{\sec^2\theta} + \frac{1}{\csc^2\theta} = \sin^2\theta + \cos^2\theta = 1$

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Question 144

The selling price of 20 articles is equal to the cost price of 22 articles. The gain percentage is

A 12%

B 9%

C 10%

D 11%

Answer: C

Explanation:
Let the cost price be X.
Hence, the cost price of 22 articles is $22X$
Hence, the selling price of 20 articles is $22X$
So, the selling price of one article is $11X$
So, the profit percentage is 10%

Question 145

A man gains 10% by selling an article for a cetain price. If he sells it at double the price, then the profit made is

A 120%

B 20%

C 40%

D 100%

Answer: A

Explanation:
Let the cost price be 100.

So, the selling price is $110X\%$

If, the price is doubled, the selling price is $220X\%$

Hence, the profit percentage will be 120%

Question 146

A number increased by $\frac{75}{2}$ % and the increment is 33. The number is

A   27

B   22

C   24

D   25

   Answer: C

Explanation:

Let's say number is x

After increasing it by $\frac{75}{2}$ %, increment number will be $x \times \frac{75}{200}$

i.e. equal to $(33 - x)$

After solving above equation we will get x=24

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Instructions

Directions : The following pie chart shows the marks scored by a student in different subjects- viz. Physics (Ph), Chemistry (Ch), Mathematics (M), Social Science (SS) and English (E) in an examination. Assuming that total marks obtained for the examination is 810, answer the questions given below.

The marks obtained in English, Physics and Social Science exceed the marks obtained in Mathematics and Chemistry by
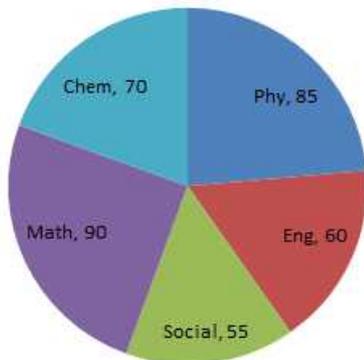
Question 147

A   10%

B $10\frac{1}{9}$ %

C   11 %

D $11\frac{1}{9}$ %

   Answer: D

Question 148

The difference of marks between Physics and Chemistry is same as that between

A   Physics and English

B   Mathematics and English

C   English and Social Science

D   Chemistry and Social Science

Answer: D

Explanation:
As we know share of marks will be proportional to share of angles in pie chart
Hence Difference of marks in physics and chemistry is proportional to 15
and difference of marks in chemistry and social science is also proportional to 15 too.
So answer will be D

Question 149

The marks obtained in Mathematics and Chemistry exceed the marks obtained in Physics and Social Science by

A   30

B   40

C   45

D   50

Answer: C

Explanation:
Total angle made by maths and chemistry in pie chart is 160.
Hence their total share will be $\frac{810}{360} \times 160$ = 360
And total share of physics and social science will be 140.
Hence their total share will be $\frac{810}{360} \times 140$ = 315
Difference is 360-315=45

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Question 150

Thu subject in which the student obtained 135 marks is

A   Physics

B   Chemistry

C   Mathematics

D   English

Answer: D

Explanation:
Among all options share of english will be $\frac{60}{360} \times 810$ = 135.

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English

Instructions

For the following questions answer them individually

Question 151

We have been knowing/each other/since we were children./No error

A   We have been knowing

B   each other

C   since we were children.

D   No error

   Answer: A

Explanation:

The error is in the part A.

Question 152

Neither of the teams/are sensible enough/to do this task./No error

A   Neither of the teams

B   are sensible enough

C   to do this task.

D   No error

   Answer: B

Explanation:

The error is in the part of B

Neither is called as distributive pronoun.

The pronoun that refer to person or things one at a time are called distributive pronoun.

Ex- Each,either,neither,every.

It is used as a singular pronoun & they are followed by singular noun & singular verb so usage of `are' is wrong.

Replace `are' with `is'.

Question 153

If I was he/I wouldn't accept/this project./No error

A   If I was he

B   I wouldn't accept

C   this project.

D   No error

   Answer: A

Explanation:

The error is in the part A of the sentence.

This type of sentences comes under `Impossible conditions/unfulfilled conditions.

It is shown by using `IF'.

Ex- If I were rich,I would have bought that car.

Here we use helping verb `were'.

Question 154

The teacher advised to/the student to borrow/a book from the library within three days./No error

A The teacher advised to

B the student to borrow

C a book from the library within three days.

D No error

   Answer: A

Explanation:

The error is in the A part of the sentence.

Replace `Advised to ' with `ordered'

The sentence is of imperative type.(Direct -indicates speech)

Imperative sentence begins with verbs that issue a command.

Here the verb is to borrow.

Question 155

I insisted/on his going/there immediately./No error

A I insisted

B on his going

C there immediately.

D No error

   Answer: B

Question 156

The Information and Communication Technology has _____ age and employees very highly paid technocrats.

A come of

B come upon

C come out of

D come through

   Answer: A

Explanation:

The correct answer is option number -A

Come of is the correct phrase which means to be the result of something.

Come of age -means it reaches an advanced stage of development.

Remaining options are contextually & grammatically incorrect.

Question 157

They reached the railway station before the train _____ .

A   had left

B   had been left

C   left

D   was leaving

   Answer: C

Explanation:
The correct answer is option number -C

Question 158

He slipped _____ his old ways and started drinking again.

A   into

B   off

C   by

D   in

   Answer: A

Explanation:
The correct answer is option number -A

Slipped into -is the correct choice.

Slipped into -is a phrase which means to gradually start to be in a bad phase,state.

Remaining options doesn't fits here.

Question 159

All is not well _____ the automobile sector.

A   of

B   down

C   in

D   to

   Answer: C

Explanation:
The correct answer is option number -C

In -is the correct presposition.

In is used to show time, certain period of time.In means within, pertaining to.

Here what sentence implies that condition is not good in automobile sector.

Rest options doesn't fits here.

Question 160

Many premier educational institutions come forward to have a _____ with flourshing industries.

A   tie-down

B   tie-up

C   tie-in

D   tie-on

   Answer: B

Explanation:
The correct answer is option number -B

Tie up -means to connect with,associate with.

Tie in - means something that is related or connected to another.

Tie down - to constrain,to confine within set limits.

Tie on - capable of being fastened or added to something else.

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Instructions

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

Question 161

Stern

A   Lenient

B   Young

C   Stem

D   Strict

   Answer: D

Question 162

Citadel

A   Metropolis

B   Mansion

C   Fortress

D   Palace

   Answer: C

Question 163

Aberration

A Justification

B Intensification

C Deviation

D Rationality

Answer: C

General Science Notes for SSC CGL

Instructions

For the following questions answer them individually

Question 164

Dormant

A Active

B Inactive

C Dorsal

D Domestic

Answer: A

Instructions

Directions : In these questions choose the word opposite in meaning to the given word and mark it.

Question 165

Tranquility

A Disturbance

B Quiet

C Serenity

D Peace

Answer: D

Instructions

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

Question 166

Dwindle

A Decrease

B Diminish

C Shrink

D Increase

Answer: D

Instructions

Directions : In these questions four alternatives are given for the Idiom/ Phrase bold in the sentence. Choose the alternative which best expresses the meaning of the Idiom/Phrase.

Question 167

Acquiring a job is a cakewalk for a student who has good academic performance coupled with the good attitude.

A walk away with a cake

B a difficult achievement

C a walkway made with cakes

D an easy achievement

Answer: D

Question 168

Let sleeping dogs lie.

A Do not bring up an old controversial issue

B Dogs can raise tempers

C Do not allow dogs to stand

D Prevent dog mobility

Answer: A

Question 169

To get admission in present day educational institutions, all children should be born with a silver spoon in the mouth.

A be born to silver spoon manufacturer

B always hold a silver spoon

C be born with silver spoon

D be born in a rich family

Answer: D

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Question 170

A man of straw means

A a worthy fellow

B an unreasonable person

C a man of no substance

D   a very active person

     Answer: C

Question 171

Children complain about their parents' gifts. They should learn not to look gift horse in the mouth .

A   not to look at a horse's mouth

B   not to find fault with the gifts received

C   not to ask for more gift

D   not to find goodness in the gifts

     Answer: B

Instructions

Directions : In these questions a sentence/ part of the sentence is bold. Below are given alternatives to the bold sentence/ part of the sentence at a, b and c which may improve the sentence. Choose the correct alternatives. In case no improvement is needed, your answer is d.

Question 172

If I had the money I would have bought the house.

A   If I had had the money I would have bought the house

B   If I have the money I would have bought the house

C   If I have had the money I would have bought the house

D   No improvement

     Answer: A

Question 173

I wish I knew what is wrong with my car.

A   I wish I had known what is wrong with my car

B   I wish I know what is wrong with my car

C   I wish I knew what was wrong with my car

D   No improvement

     Answer: C

Explanation:

The correct sentence is C

Replace `is' with `are'.

As the verb is in the past form `knew',helping verb must be in the past form.

Also sentence starts with `wish'

Wish denotes the unfulfilled desire.It also denotes the part things or whishes.

Question 174

Just before he died, Amar, who is a poet, wrote this poem.

A   Just before he died, Amar, who was a poet, wrote this poem

B   Amar, who is a poet, wrote this poem just before he died

C   Amar wrote this poem, who is poet, just before he died

D   No improvement

   Answer: A

Explanation:

The correct sentence is A.

As per the subject-verb agreement,it should be `was'.

Died is the past form of the verb die.

Question 175

The flag will be risen on the 15th of August.

A   The flag will be roused on the 15th of August

B   The flag will be rising on the 15th August

C   The flag will be raised on the 15th of August

D   No improvement

   Answer: B

Explanation:

The correct sentence is B

We used this tense to express an action which will be in progress at a given time in the future.

The sentence seems to imply the future event so usage of future continuous tense is correct.

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Question 176

Sushma has wisdom, charm and she has a good sense of humour.

A   had a good sense of humour

B   a good sense of humour

C   has a good sense of humour

D   No improvement

   Answer: B

Explanation:

The correct sentence is B

The sentence talks about Sushma ,her attributes.

As sentence is joined by `and' we don't need to use pronoun (she).

Charm,wisdom are nouns.

That exhibits some qualities.

Humour -Is the quality of being funny.

But we can't say Sushma has charm, wisdom & humour.

That will give different meaning.

What we want to say that she is funny.

Or she has that quality.

So after and `a great sense of humour' will be the correct construction

To denote some quality we use article `A'.

Question 177

They knocked down ten houses when they built the new road.

A   ruptured

B   removed

C   pulled down

D   No improvement

　　Answer: C

Explanation:

The correct answer is option number - C

Pulled down means to destroy, demolish.

Knocked down- to hit someone with vehicle

To reduce the amount,price

Ruptured -to burst,break through.

Removed - to move something.,to replace.

So correct option is pulled down.

Question 178

Don't sit in the grass. It's wet.

A   by the side of

B   on

C   beside

D   No improvement

　　Answer: B

Explanation:

The correct answer is option number - B

It's a prepositional error.

On -is used to indicate direct contact with the surface.

In - we use this to show time,place.

By the side of - close to

Beside - at the side of,next to.

Only option `on' fits here.

Question 179

The game is more important than the winning of the prize.

A   The gaming is more important than the winning of the prize

B   The game is more important than winning of the prize

C   Gaming is more important than winning of the prize

D   No imporovement

   Answer: B

Explanation:

The correct answer is option number B

Remove `the'.Article the is used to emphasize something.Or when we want to indicate/address the same thing or person which we had talked about before in the sentence.

When we use `than', construction should be same as per the rule of parallelism.

Gaming -is the present participle of game.

And winning is an adjective.

The game here means the our will to participate.

Question 180

The actor is out of jail, and not exactly a free man, since he will be under house arrest for an additional 90 days.

A   but not exactly a free man

B   though exactly a free man

C   if not exactly a free man

D   No improvement

   Answer: A

Explanation:

The correct answer is option number -A

As the 1st part of the sentence tells that actor will be out of jail(positive side),whereas 2nd part tells the negative side that he will be under house arrest.

We join sentence by `and' to connect it.

When both the parts of the sentence concludes the same meaning.

But we use to show indifference, contradiction.

Though and if -doesnt add any meaning to the sentence.

Question 181

Some players on the team suffer from chronic knee problems and will not play in the next playoff.

A   Some player on the team suffered

B   Some player on the team suffer

C   Some players on the team suffers

D   No improvement

   Answer: D

Explanation:

The correct answer is option number - D.

The given construction is correct.

After some we should use the plural form if the Subject.

So usage of `player' will be wrong.

The sentence is in simple present tense followed by simple future.

Instructions

For the following questions answer them individually

Question 182

To reduce to nothing

A   Cull

B   Lull

C   Null

D   Annul

   Answer: C

Question 183

An obviously true or hackneyed statement

A   Truism

B   Syllogism

C   Iconic

D   Imagism

   Answer: A

Question 184

Words inscribed on a tomb

A   Epilogue

B   Epitaph

C   Epitome

D   Epistle

   Answer: B

Question 185

The act of producing beautiful handwriting using a brush or a special pen

A   Hieroglyphics

B   Calligraphy

C   Stencilling

D   Graphics

Answer: B

Question 186

A word composed of the first letters of the words in a phrase.

A   Acronym

B   Abridgement

C   Almanac

D   Anachronism

Answer: A

Question 187

A person of obscure position who has gained wealth.

A   Extrabagant

B   Promiscuous

C   Parvenu

D   Sumptuary

Answer: C

Question 188

A study of sounds is known as

A   semantics

B   sylistics

C   linguistics

D   phonetics

Answer: D

Instructions

Directions : In these questions, four words are given in each question, out of which only one word is correctly spelt. Find the correctly spelt word.

Question 189

A   Busyness

B   Bussyness

C   Business

D   Bussiness

   Answer: C

Question 190

A   Questionnaire

B   Questionnair

C   Questionaire

D   Questionnare

   Answer: A

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Instructions

Directions : In these questions you have a passage with 10 questions. Read the passage carefully and choose the best answer to each question out of the four.

The postmaster first took up his duties in the village of Ulapur. Though the village was a small one, there was an indigo factory nearby and the propritor, an Englishman, had managed to get a post office established. Our postmaster belonged to Calcutta. He felt like a fish out of water in this remove village. His office and living-room were in a dark thatched shed, not far from a green, silmy pond, surrounded on all sides by a dense growth. The men employed in the indigo factory had no leisure, moreover they were hardly desirable companions for decent folk. Nor is a Calcutta boy an adept in the art of associating with others. Among strangers he appears either proud or ill at ease. At any rate the postmaster had but little company, nor had he much to do. At times he tried his hand at writing a verse or two. That the movement of the leaves and clouds of the sky were enough to fill life with joy - such were the sentiments to which he sought to give expression. But God knows that the poor fellow would have felt it as the gift of a new life, if some genie of the Arabian Nights had in one night swept away the trees, leaves and all, and replaced them with a macadamised road, hiding the clouds from view with rows of tall houses.

Question 191

What does the idiom 'fish out of water' suggest?

A   In unfamiliar surroundings

B   can die any moment

C   grasping for breath

D   amphibious creature

   Answer: A

Question 192

Find a word in the passage which is the opposite of 'near'.

A   Convenient

B   Unknown

C Close

D Remote

   Answer: D

Instructions

For the following questions answer them individually

Question 193

Find a word in the passage which means 'the owner of a business'.

A Constructor

B Businessman

C Entrepreneur

D Proprietor

   Answer: D

Instructions

Directions : In these questions you have a passage with 10 questions. Read the passage carefully and choose the best answer to each question out of the four.

The postmaster first took up his duties in the village of Ulapur. Though the village was a small one, there was an indigo factory nearby and the propritor, an Englishman, had managed to get a post office established. Our postmaster belonged to Calcutta. He felt like a fish out of water in this remove village. His office and living-room were in a dark thatched shed, not far from a green, silmy pond, surrounded on all sides by a dense growth. The men employed in the indigo factory had no leisure, moreover they were hardly desirable companions for decent folk. Nor is a Calcutta boy an adept in the art of associating with others. Among strangers he appears either proud or ill at ease. At any rate the postmaster had but little company, nor had he much to do. At times he tried his hand at writing a verse or two. That the movement of the leaves and clouds of the sky were enough to fill life with joy - such were the sentiments to which he sought to give expression. But God knows that the poor fellow would have felt it as the gift of a new life, if some genie of the Arabian Nights had in one night swept away the trees, leaves and all, and replaced them with a macadamised road, hiding the clouds from view with rows of tall houses.

Question 194

The adjective used to describe the postmaster's living-room is

A bright

B dark

C light

D deep

   Answer: B

Question 195

What does the phrase 'ill at ease' in the passage mean?

A Forward

B Disease

C Comfortable

D Uneasy

Answer: D

Question 196

What does the phrase 'little company' in the passage mean?

A Bad friendship

B Hardly any friends

C Small business

D Business-like

Answer: B

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Question 197

At times, the postmaster wrote

A poems

B novels

C short stories

D dramas

Answer: A

Question 198

The postmaster wrote on the

A beauty of nature

B beauty of himself

C beauty of the weather

D beauty of the village

Answer: A

Question 199

The word 'genie' means

A monster

B spirit

C ghost

D soul

Answer: B

Question 200

Which factory was situated near the village Ulapur?

A Chemical

B Rubber

C Clothes

D Dyes

Answer: D

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