

Name: Saddam

Batch: 041

1

Paper: GISA

MTWTFSS

DATE: _____

PART-11

ANSWER 2a

Octet Rule:

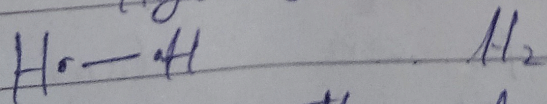
When the atom is surrounded by '8' eight electrons it is in stable position. This is called Octet Rule. This rule is derived by Lewis.

This rule the atom can adopt with his own electrons or with sharing of electron with other atoms to gain stability.

Covalent Bond:

A bond which formed by the mutual sharing of electrons is called covalent bond.

For example the bond b/w the ~~molecule~~ atoms of Hydrogen molecule.

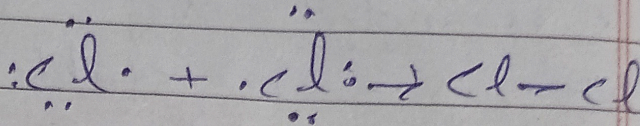


In this the atoms of hydrogen

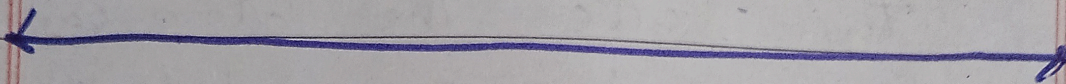
Share electron and they form one molecules.

2nd Example:

For example the bond b/w the atoms of chlorine molecule.



this also covalent bond.



ANSWER 2b

Angular structure of water molecule:

There is hydrogen bond b/w the ~~the~~ water molecules hydrogen bond is formed b/w the hydrogen of one molecule and the most electronegativity of other molecules.

Electro negativity: it's the capacity of an atom to attract the share pair of

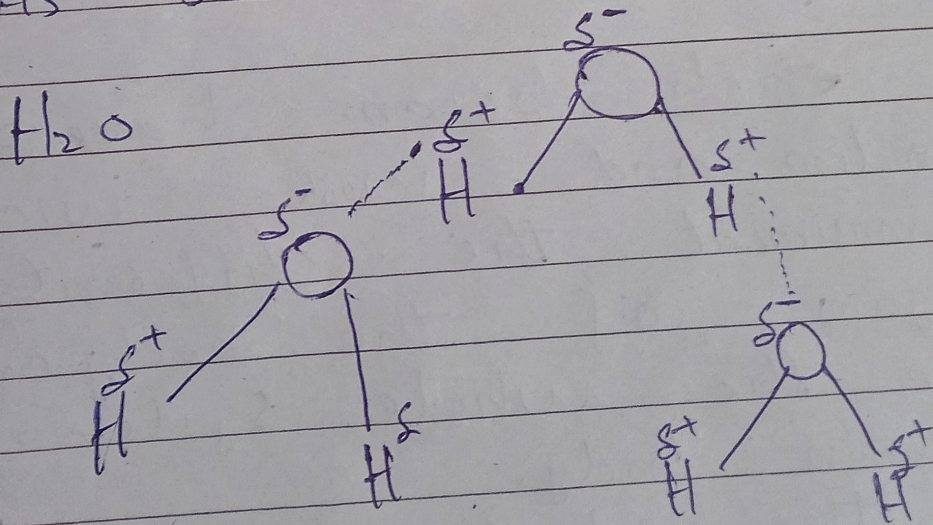
P · T · O

electrons.

The angular shape of water molecule is formed due to lone pair of electrons.

When the water molecules together with hydrogen bonds the partial -ve charge occurs on oxygen atom, and partial +ve on hydrogen atoms and lone pair of electrons in oxygen atoms which not take part in bond repel than shape of water molecules became angular.

As shown in the figure.



ANSWER 2C

Human Brain:

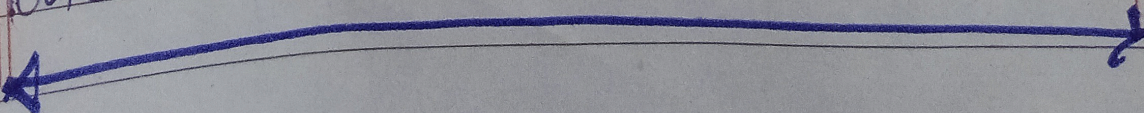
Brain is the organ of human body which control the whole functions of the human body.

Neuron is the structural and function unit of brain which move information from brain different organs and communicate organs with brain.

Brain is divided into three parts Forebrain, mid brain, and hind brain.

each brain have own function and work with communicate the different organs of the body and run the whole system of human body.

the death of means the death of human.



Answer no: 2d

Cell Structure:

The Fundamental structure and functional unit of organism is called cell.

Main part of cell:

cell membranes

Cytoplasm

Nucleus

Cell Membrane

Cell Membrane is the outer wall of cell which provide environment to cell function. In plant cell there is cell wall and animal cell cell membrane.

Cytoplasm:

It's the semifluid which present in the cell. cytoplasm is 70% water. Most of cellular activities occur in cytoplasm.

Nucleus of cell:

Nucleus is round shap Present in the center of animal

cell and in side in a plant cell. it's the basic part of cell which in which nucleoplasm, DNA, RNA, and Chromosome present. it perform the genetic function of organism. it's play important role in cell division.

ANSWER No 8a

Given data

Speed of car in first half of
Journey is = 40 km/h

Speed in second half of Journey
is = 60 km/h

Required: Average speed = ?

As we know that

$$\text{Average} = \frac{\text{Sum of observation}}{\text{Total}}$$

$$\text{Average} = \frac{40 + 60}{2} \Rightarrow \frac{100}{2} = 50 \text{ km/h}$$

Average speed of the car is 50 km/h
Ans

ANSWER No: 8b

Given data

ROSE = 6821, 73456 = CHAIR

PREACH is = 961473

SEARCH = ? \Rightarrow SEARCH = 214673

Ans

ANSWER NO: 8C

Given data

"A" is brother of "B", | "D" is male member
 "B" is sister of "C" |
 "C" is father of "D"

Required: Relation b/w D and A

"A" is uncle of "D" Ans

And

D is nephew of A

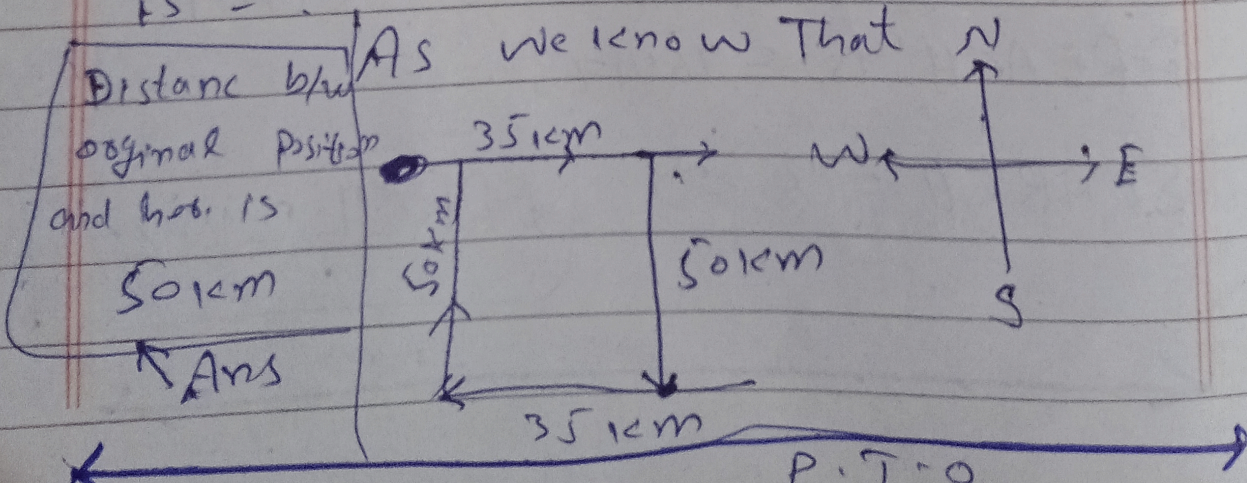
ANSWER NO: 8d

Given Data

Kashmala travel 35 km toward the west.

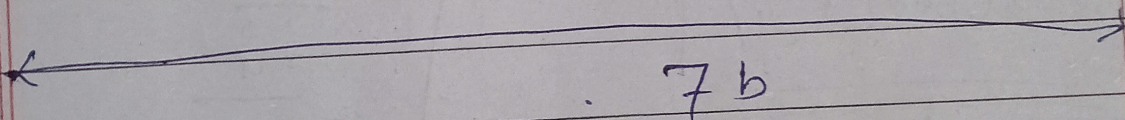
• Take right turn and travel 50 km. She takes another right turn and travel 35 km.

Distance b/w original position and her is = ?



ANSWER NO: 7a

Given Data



Area of farm is = 57 m^2

Height of 3 side of wall is = 2 m

Height of wall on one side = 3 m

Area = $L \times W$

$L \times W = 57$

ANSWER: NO 7 C

Given Data

No of students is = 7

Ages of students as: 18, 18, 19, 19, 19, 21, 21

Mean, median, mode = ?

$$\text{Mean} = \frac{\text{Sum of observation}}{\text{No of observation}}$$

$$18 + 18 + 19 + 19 + 19 + 21 + 21 = 135$$

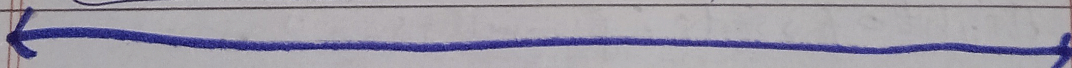
$$\text{Mean} = \frac{135}{7}$$

$$\begin{array}{r} 19.28 \\ 7 \overline{) 135} \\ \underline{7} \\ 65 \\ \underline{63} \\ 20 \\ \underline{14} \\ 60 \\ \underline{56} \\ 4 \end{array}$$

Mean = 19.28

Median = 19

Mode = 19



ANSWER NO: 7d

Difference b/w mental Ability and IQ Test:

Intelligence Quotient (IQ) is a score derived from one of several different tests designed to assess intelligence.

The mental ability were first discussed by Thomas stone in 1935.

Where mental ability is the ability of human to solve the problems. in how to approach to an issue and how to solve it.

