

Zonal Education Office, Thenmaradchy

Grade 09

Unit Exam - 3 Science

Time- 40 minutes

Answer all Questions




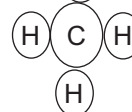
Part - I

01. Underline the most suitable answer.

01. Symbol of the element known as cuprum in Latin,

1. Ca 2. Cu 3. Co 4. Cl

02. Example of homo atomic molecule is,

1.  2.  3.  4. 

03. A compound having the elements C, H, O is,

1. Benzene 2. Glucose 3. Methane 4. Ethane

04. Unique property of an atom is

1. Atomic number 2. Mass number 3. Number of neutrons in the nucleus
4. Sum of the number of protons and neutrons in the nucleus

05. Particles found in the nucleus of the atom is / are

1. electron 2. electron and protons 3. Protons 4. Protons and neutrons
(10 marks)

02.a) Fill in the following table.

Element	Electron	Proton	Neutron	Atomic number	Mass number
Maganesium	12	12
Chlorine	17	35

(18Marks)

b) Atomic number of aluminium is 13, a number of it is 27.

1. Give this data in standard form

.....
(6 marks)

2. What is the number of neutral particles in the above atom?

.....
(4 marks)

3. What is the number of positive particles in the above atom?

.....
(4 marks)

4. In the above atom, where the electrons are placed?

.....
(4 marks)

03. Some elements and compounds found in day to day life is given. Answer the following questions using these elements and compounds. (Glucose, Carbon, Sodium, Chloride, Aluminium, Urea, Sulphur)

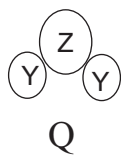
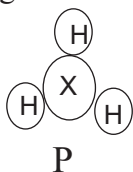
a. Pure substances formed by the combination of two or more elements in a certain ratio.

1. 2. 3.
(6 marks)

b. Substances which can't be divided by either physical or chemical methods into simple substances

1. 2. 3.
(6 marks)

04. More than one different atoms form hetero atomic molecules. Some of such compounds are given below.



1. Identify the elements mentioned by X, Y and Z?

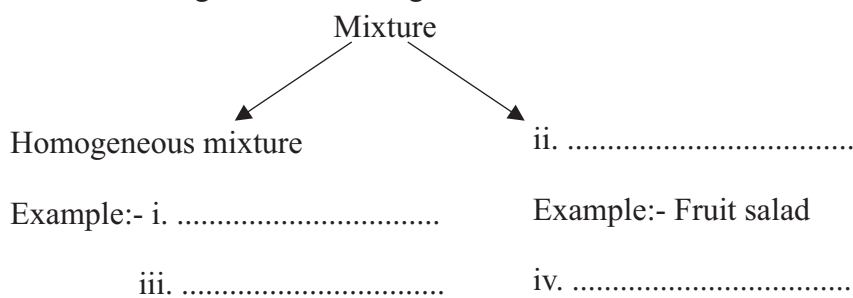
- X Y. Z.
(6 marks)

2. Give the names of P and Q?

- P..... Q.....
(8 marks)

05. A teacher gave the following mixtures for the observation of the features of the mixtures. Sugar solution, Fruit salad, Cement mixture, Sea water

Fill the following flow chart using the above mixtures.



(4x2= 8 marks)

Give the methods used to separate the components of the following mixtures.

1. Separation of salt from sea water
2. Separation of sugar from sugar cane
3. Separation of components from crude oil
5. Extraction of cinnamon oil from cinnamon leaves.....
(4x5= 20 marks)