ADESIYAN FAVOUR ADETOLA

17/MHS05/005

PHYSIOLOGY

1. Possible formulas for a molecular ion of 105 – C6H8O2 and C6H5CO
2. Importance of organic compounds

All living organisms contain carbon

Organic compounds are used for fuel

They are used for antiseptics

1. Difference between homocyclic and heterocyclic compounds

|  |  |
| --- | --- |
| Homocyclic compound | Heterocyclic compound |
| All atoms in the ring are same | At least one atom in the ring is different from the rest |

1. $R\_{f}=\frac{distance travelled by substance}{distance travelled by solvent}$

$R\_{f}=\frac{2.4}{12.2}=0.19$

$R\_{f}=\frac{5.6}{12.2}=0.46$

$R\_{f}=\frac{8.9}{12.2}=0.73$

1. A is an aldehyde and B is an alkene.
2. 2,4-DNPH test can be used to qualitatively detect the carbonyl functionality of a ketone or aldehyde group.
3. Functional groups and examples

Alkanes – propane, pentane

Alkenes – hexane, heptane

Alkynes – propyne, heptyne

Alkanos – propanol, pentanol

Ketones – acetone,

Amines - menthalamine, benzalamine

Carboxylic acid – methanoic acid, ethanoic acid