

Name: Emel-Ubani-Emmanuel

Matric No 17/E0602/023

Computer Engineering

b Organic compounds Importance

Organic compounds are in the production of;

- i food: Carbohydrates, sugars etc
- ii clothes: Nylon etc
- iii fuels: Natural gas, petrol etc
- iv medicines: Penicillin etc
- v explosives: Nitroglycerine, nitrocellulose etc
- vi Insecticides: DDT etc
- vii Dyes: Indigo, Alizarin etc
- viii Household articles: cosmetics, perfume etc

c Homocyclic compounds: are compounds which consist of atoms belonging to the same element present within the ring of a cyclic compound.

Hetero-cyclic compounds: are compounds which consist of atoms of both carbon and any other element present within the ring of a cyclic compound.

2a) Retardation factor (R_f) = $\frac{\text{Distance moved by sol}}{\text{Distance moved by solvent}}$

i Band (2.4 cm); (R_f) = $\frac{2.4 \text{ cm}}{12.2 \text{ cm}} = 0.19672$

ii Band (5.6 cm); (R_f) = $\frac{5.6 \text{ cm}}{12.2 \text{ cm}} = 0.45902$

iii Band (8.9 cm); (R_f) = $\frac{8.9 \text{ cm}}{12.2 \text{ cm}} = 0.72951$