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**MATRIC N0: 17/MHS01/226**

**DEPARTMENT: MEDICINE & SURGERY**

**COLLEGE: MEDICAL & HEALTH SCIENCES**

**LEVEL: 100**

**COURSE: CHEM 102**

a)

b) They serve as the basis of all carbon based life on earth.

They create energy production in biological life, depletion of the atmosphere and release energy from hydro carbons.

They are used in making insecticides. E.g; malathion, etc.

They are used in production of medicines. e.g; morphine.

They are used in making explosives. E.g; nitrocellulose.

c

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| --- | --- |
| HOMOCYCLIC COMPOUND   * Their rings are formed by one type of atom. * They are made up of 100% of carbon atoms. * They consist of alicyclic homocyclic and aromatic homocyclic. * Examples of compounds include; phenol, toluene, naphthalene. | HETEROCYCLIC COMPOUNDS   * Their rings are formed by two or more types of atoms. * They include atoms like; nitrogen, oxygen and sulphur. * They are made of alicyclic heterocyclic and aromatic heterocyclic. * Tetrahydrofuran, piperidine and pyridine. |

1. 1. RF = 2.4 = 0.197

12.2

RF = 5.6 = 0.459

12.2

RF = 8.9 = 0.7295

12.2

b) Aldehyde & unsaturated hydrocarbons

c) Aldehydes and ketones

d) Alkane: propane & butane.

Alkene: ethane & hexane

Alkyne: ethyne & butyne

Alkanoic acid: ethanoic acid & hexanoic acid

Esthers: ethyl ethanoate & propyl butanoate

Ethers: ethoxymethane & butoxypropyl

Halides: 2-chloro hexane & 1,2-floro pentane.