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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.
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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.