**CHM102**

Name: Essang Rosemary

Matric no: 17/ENG04/023

College/Department: Electrical/Electronic Engineering

**No 1**

a).C7H7N(Phenylmethanimine) and C7H5O(Phenylmethanone)

b). **Food**: Carbohydrate, Proteins, Fats, vitamins, Enzymes, etc.

**Clothes**: - Cotton, Silk, Wool, Nylon, Rayon, Dacron, etc.

**Fuels**: - coal, Wood, Natural gas, Petrol, etc.

**Medicines**: - Penicillin, Streptomycin, Chloromycetin, Sulphadiazine, Morphine, Aspirin, Iodoform, Cocaine, etc.

**Explosives**: - Nitroglycerine, Nitrocellulose, T.N.B, T. N.T, etc.

**Dyes**: - Indigo, Malachite green, Alizarin, etc.

**Insecticides**: - D.D.T, Gammexane, Malathion, etc.

**Household and other common articles**: - soaps, Cosmetics, Perfumes, Detergents, paper, Rubber, Plastics, Leather, Resins, Inks, Paints, Varnishes, Photographic films, etc.

c). If the atoms present in a ring belongs to the same element, they are called homocyclic compounds. But if there are both carbon and other atoms present in the ring, they are known as heterocyclic compounds.

**No2**

a). Retardation factor = distance travelled by substance/distance travelled by solvent

**Parameters:**

Solvent Front: 12.2cm

Bands: 2.4cm, 5.6cm, 8.9cm

Rf= 2.4cm/12.2cm, 5.6cm/12.2cm, 8.9cm/12.2cm

= 0.1967, 0.4590, 0.7295

b). Compound A is an aldehyde

Compound B is an ethane

c). Aldehydes

d).

|  |  |
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| **Name of Organic Compound** | **Examples** |
| Alkanes | Propane and Ethane |
| Alkenes | Propene and ethene |
| Alkynes | Propyne and ethyne |
| Haloalkanes | 1-chloropropane and 1-flouropropane |
| Alcohols | Propanol and ethanol |
| Amines | Propylamine and ethylamine |
| Aldehydes | Propanal and ethanal |