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17/MHS07/002

CHM102 Assignment

1 a)

b) i. Food: Carbohydrates, Proteins, fats, Vitamins, Enzymes.

ii. Clothes: Cotton, Silk, Wool, Nylon, Rayon, Dacron.

iii. Fuels: Coal, Wood, Natural gas, Petrol.

iv. Medicine: Penicillin, Streptomycin, Chloromycetin, Sulphadiazine, Morphine, Aspirin, Cocaine, Iodoform.

v. Explosives: Nitroglycerine, Nitrocellulose, T.N.B, T.N.T

vi. Dyes: Indigo, Malachite green, Alizarin.

vii. Insecticides: D.D.T, Gammexane, Malathion.

viii. Household and other common articles: Soaps, Cosmetics, Perfumes, Paper and so on.

c) Homocyclic compounds contain atoms of the same element bonded to each other forming a ring (for example; benzene, toluene, cyclohexane) WHILE, Heterocyclic compounds contain atoms of different elements bonded to each other forming a ring (for example; pyran, azocine, thiocane).

2 a)

b) A is a Ketone, B is an Alkene.

c) Whatever test is used to check for formation of precipitate.

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| S/N | Organic Compounds | Functional Group | Examples |
| 1. | Alkyl halides | -F, -Cl, -Br, -I | Methyl chloride, propyl iodide |
| 2. | Ketones | -C=O | 2-propanone(C3H6O), 2-Heptanone(C7H14O) |
| 3. | Ethers | -OR | Ethoxyethane (diethyl ether), phenoxybenzene |
| 4. | Alkanols | -OH | Methanol, ethanol |
| 5. | Amines | -NH2 | Dimethylamine, 1-aminopropane |
| 6. | Aldehydes | -COH | Formaldehyde(methanal), Acetaldehyde(Ethanal) |
| 7. | Amides | -(NH2)C=O | Carboxamides,Sulfonamides |

d)