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1. Possible formula’s for a molecular ion includes: ethylbenzene, phenylmenthanimine, pyran-3-carbonitrile, phenylmethanone.
2. Importance of organic compounds includes: they are important in nucleic acids because it contains mostly coal and hydrogen. It is found in carbohydrates which contains carbon, hydrogen and oxygen. It helps in the metabolic process in human being.
3. Differences between homocyclic compounds and Heterocyclic compounds are: homocyclic compounds are compounds of the same elements bonding to form a ring structure examples are; benzene, cyclohexane, toluene. While Heterocyclic compounds are compounds of different element bonding to form a ring structure examples are; pyran, azocine, thiocane.
4. Retardation factor=distance moved by the substance ÷distance by solvent front, Rf, 2.4÷12.2=0.197,Rf, 5.6÷12.2=0.459,Rf, 8.9÷12.2=0.72
5. Compound A-Aldehydes,B-Alkene.
6. 2,4-Dinitrophenylhydrazine test is employed for the test for ketones and aldehydes.
7. Seven functional groups of organic compounds and examples includes:-alkane example; propane. -alkene example; ethene. -alkynes example; propyne. Haloalkanes; example ; 1-chloropropane. Alcohol example; propanol. Ketone, example; propanone. Carboxylic acids, examples; propanoic acid.