NAME: PUIKUMO NIMIBOFA CROSDALE

MATRIC NO : 17/ENG 02/075

COURSE: CHM 102

DEPARTMENT: COMPUTER ENGINEERING

COLLEGE: ENGINEERING

ASSIGNMENT

1a. the possible formulas are C7H16 , C6H12O , C5H8O2

1b. Organic compounds are used in every part of our lives. They are used to make food,clothes, fuels, medicines, dyes and insecticides.

1c. Homocyclic compound ring contains only one type of atom while heterocyclic compound ring contains different types of atoms.

2a. 2.4cm band retardation factor: $12.2÷2.4=5.08$

 5.6cm band retardation factor: $12.2÷5.6=2.18$

 8.9cm band retardation factor: $12.2÷8.9=1.37$

2b. A: aldehydes and B: alkenes

2c: It is used to test for aldehydes and ketones

2d: alkyl halides: iodoethane and bromopentane

 Alcohol: ethanol and propanol

 Ketones: pentanone and hexanone

 Carboxylic acids : pentanoic acid and butanoic acid

 Alkanal: heptanal and pentanal

 Esters: methyl ethanoate and ethyl propanoate

 Ether: diethyl ether methyl ethyl ether