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MATRIC NOS: 17/MHS01/101

DEPARTMENT: MBBS

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SECTION 1

a.) Since the mass 105 is add, it contains at least are nitrogen

N=14 a.m.u

105-14=17

Number of carbon atoms =7.5

N

$$105-[(7\times12)+(14\times1)+(1\times X)]=0$$

X=7

N

Adding an oxygen atom

NO

- bi.) Most of the sterilizing agents & disinfections like phenol are organic compounds.
- ii.) In industries and labs, organic solvent are used as cleaning agents to clear off impurities.
- Iii.) Organic compounds are the main components of valuables found in the world like diamond, graphite,petroleum,e.t.c
- iv.) Organic compounds are used in making medicines and are main components of medicines e.g pecilin, Aprin, cocaine, e.t.c
- v.) Organic compound are the main components of valuable found in the world like diamond , grapite, petroleum, e.t.c

C.)

Difference Between Homocyclic and Heterocyclic Compound

Homocyclic Compound	Heterocyclic Compound
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1. they have 100% carbon atoms in their rings	They have mainly carbon and in addition	
	heteroatoms such as nitrogen, oxygen and	
	sulphur in their rings.	
2. Their rings contain only one type of atom.	Their rings contain at least two different types	
	of atoms including carbon.	
3. They are divided into alicyclic and aromatic	They are divided into alicyclic and aromatic	
homocyclic compound.	heterocyclic compound.	

QUESTION 2

2a.) =

Distance of solvent front =12.2cm

= 0.197

= 0.459

= 0.730

2b.) A is an aldehyde

B is an alkene

2c.) 2c. 2,4-Dinitrophenylhydrazine test is employed for Ketones and Aldehydes

<u>2d.</u>

Functional group	Examples
Alkanoic Acids (RCOOH)	Ethanoic acid(CCOOH), butanoic acid
Esters (RCOOR)	Methyl ethanoate(), Methyl methanoate (),
Alkanal (RCHO)	Methanal (HCHO), Pentanal ()
Alkanol(ROH)	Propanol (), Butanol()
Amides (RCON)	Ethanamide (), Butanamide ()

Amides (RCON)	Ethanamide (), Butanamide ()
Amines (RN)	Methylamine (), Ethlyamine ()
Alkanone	Propan-2-one (), Butan-2-one ()