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**17/MHS01/128**

**Mbbs**

1. C7NH7

1b) they are used to clear of impurities

 .most of the sterilizing agent and disinfectants are carbon compounds due to their properties like solubility, pH, they can kill microbes and even other body cells.

.organic compounds like graphite and petroleum are highly valued and durable to people in the world.

.most organic compounds are used in making drugs which are used to cure human diseases.

.food materials e.g.carbohydrates, proteins, vitamins and fats are made up of carbon compounds.

1c)

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| Homocyclic compounds | Heterocyclic compounds  |
| They are cyclic compounds having atoms of the same element as ring members | They are cyclic compounds having the atoms of different elements as ring members including carbon atoms |

2a)if values of band A=distance moved by BAND A/Distance moved by the solvent front=2.4cm/12.2cm=0.20

 If the values of band B =distance moved by band b/distance moved by solvent front=5.6/12.2=0.46

 If the values of band c =distance moved by band c/distance moved by solvent front=8.9/12.2=0.73

2b)compound A is an aldehyde(alkanal)

 Compound B is an alkene

2c)2,4-dinitrophenylhydrazine test is employed for alkanals and alkanones.

2d)

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| Homologous series  | Functional group | examples |
| alkane | -C-H | CH4 methaneC2H6 ethane |
| alkene | =C=C= | C2H4 etheneC4H8 butene |
| Alkynes | -C=C- | C4H6 butyneC8H14 octyne |
| alkanols | -OH | CH3OH methanolC2H5OH ethanol |
| Alkanoic acids | -COOH | CH3COOH ethanoic acid |
| alkanones | =C=O | CH3COCH3 Propanone |
| alkanals | -CHO | CH3CHO ethanal |