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17/SCI03/001

QOUSTION 1

1 .Molecular formula : M/Z 105 is C7H5O

2. i) Organic compound is used in medicine for the production of penicillin, streptomycin, chloromycetin,morphine, aspirin etc.

Ii) organic compound are helpful in diagnosing acid to detect the organic part of the disturbed substance or deficiency.

iii) Organic compounds are used for the production of fuels e.g. coals, wood natural gas, petrol etc.

iv) Organic compounds is used in the production of household and other common resin, inks, paint, cosmetics etc.

v) organic compounds are used as sterilizing agent and disinfectants like phenol formatted Hyde etc.

vi) organic compounds are used in clearing impurities for example in drug extraction from plant the fatty matter for the pule is formed using petroleum ether

3 . homocyclic compounds are cyclic as ring member while heterocyclic compounds are cyclic compounds having atom of different elements as ring member including carbon atom .

Homocyclic compounds contains atoms of the same element bounded to each other forming a ring while heterocyclic compounds contain atome of at lest two different elements bounded to each other to form a ring .

Homocyclic compounds include ,benzene, cyclohexane ,toluene etc .why heterocyclic compounds include pyran, thiocape etc,

QUESTION 2

1. Distance of solvent front =12.2cm

Distance of the band are 2.4cm,5.6cm and 8.9cm respectively substance

Retardation factor (Rf)= distance move by substance/distance move by solvent front

Rf for 2.4cm band =24/12.2

=0.19

Rf for 5.6cm band =5.6/12.2

=0.46

Rf for 8.9cm band 8.9 =8.9/12.2

= 0.73

1. A is an aldehyde

B is an unsaturated compound

1. 2,4-diritrophenylhydrance, is also called brady yest which is used to quantitate detact the carboxol functionality of a ketones or aldehyde functional group. Positive test is signaled by the formation of a yellow, orange or red precipita
2. FUNCTIONAL GROUP

I .Alkanol/Alcohol = ethanol methanol

ii. Ether= methoxy ethane ,methoxy propane

iii. Aldehyde=decanal, octanal

Iv.carboxylic acid =propanoic acid ,butanoic acid

v. esters =ethyl ethanoate

vi. Ketones /alkanones