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COLLEGE: MHS

MATRIC NO: 17/MHS06/043

DEPARTMENT: MEDICAL LAB SCIENCE

QUESTION 1

1. Fragment at m/z =105

C8H9- phenylethyl.

1. – Organic compounds are important because

-they serve as the basic form of all carbon bases for life on earth.

* Used as the basis of food
* In lipids
* In metabolism
* In carbohydrates
* In hydrocarbons
* In nucleic acids
* Organic compounds form stable bonds to other carbon

atoms- (catenation).

1.

|  |  |
| --- | --- |
| Homocyclic | Heterocyclic |
| Ring contains only one type of aton | ring contains at least two different kinds of atoms |
| Have 100% carbon atoms in their rings  | Have mainly carbon and in addition, heteroatoms such as nitrogen, oxygen and sulphur are found in their ring |
| Subdivided into alicyclic, homocyclic, and aromatic homocyclic | Subdivided into alicyclic, heterocyclic and aromatic heterocyclic |
|  |  |

QUESTION 2

1. R.f of the first band = 2.4/12.2= 0.20

R.f of the second band= 5.6/12.2= 0.50

R.f of the third band= 8.9/12.2= 0.73.

1. A- Aldehydes

B- Alkenes

1. Aldehydes and ketones
2.

|  |  |  |
| --- | --- | --- |
| Organic compounds  | Functional group | example |
| 1. Alkanes
 | RH | methaneEthane |
| 1. Alkenes
 | RR’C=CR2R3CH3 |  ethyleneButene |
| 1. Alkynes
 | RIC≡CR2 | EthyneButyne |
| 1. Alcohols
 | ROH | methanolethanol |
| 1. Alkyl halide
 | RX | chloroformdichloromethane |
| 1. Alkanals
 | RCHO | PentanalButanal |
| 1. Carboxylic acid
 | RCOOH | propanoic acidButanoic acid |