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**MATRIC NUMBER: 17/MHS01/213**

**DEPARTMENT: MEDICINE AND SURGERY**

**SUBJECT: CHEMISTRY**

**QUESTION 1**

A. possible formulas for a molecular ion (M/Z) of 105 are:

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B. importance of organic compounds are;

- They are important in the production of antiseptics

- They are important in the production of margarine

- They are important in the production of fuels

- They are used in plastic industries

- They are used in pharmaceuticals

C.

|  |  |
| --- | --- |
| HOMOCYCLIC | HETEROCYCLIC |
| 1. They are cyclic compounds having atoms of the same element as ring members | They are cyclic compounds having atoms of different elements as ring members |
| 1. The ring of a homocyclic compound contains atoms of the same element | The ring of a heterocyclic compound contains atoms of different elements |

**QUESTION 2**

1. Rf =

|  |  |  |
| --- | --- | --- |
| BANDS | SOLVENT FRONT | RF VALUE |
| I. 2.4 cm | 12.2 cm |  |
| II. 5.6 cm | 12.2 cm |  |
| III. 8.9 cm | 12.2 cm |  |

B.

\* A belongs to the adehide group

\* B belongs to the alkene group

1. 2, 4-Dinitrophenylhydrazine test is employed for the test of adehides and ketones

D.

. Alkanoic acid- methanoic acid, propanoic acid

. Halo alkanes- iodo methane, bromo ethane

Ketones- methanone, butanone

Alkanoates- butylmethanoate, ethylbuthanoate

Alkanol- ethanol, propanol

Alkanals- methanol, propanal

Alkyne- methyne, buthyne