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COURSE: CHE102

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 ANSWERS

1(a) C5H10Cl (Chloro-pentyne)

 (b)(i) They Essential in human lives

 (ii) There are essentials to human for instance vitamins contain organic compounds for example vitamin C (citric acid) (C6H8O6)

(C) The ring of Homocyclic compounds is made up of carbon atoms only, whereas that of heterocyclic compounds is made up of more than one kind of atoms.

2(a) Rf = $\frac{2.4}{12.2}$ =0.2

 Rf = $\frac{5.6}{12.2}$ = 0.46

 Rf=$\frac{8.9}{12.2}$=0.7

(b) A= Aldehydes

 B= Alkene

(c) Test for ketone and Aldehydes

 (d) (i) Alkane (Pentane, Hexane)

 (ii) Alkanoate (Ethyl-ethanoate, Proyl-propanoate)

 (iii) Alkyl halide (Tetra chloro-hexane, Tri chloro-methane)

 (iv) Alkanoic acid (Hexadencanoic Acid, metanoic Acid)

(v) Alkyl (methyl, ethyl)

(vi) Alkanol (Ethanol, Pentanol)

(vii) Alkene (Pentene, Hexane)