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**DEPARTMENT**: Civil Engineering

**MAT NO**: 17/Eng03/059

**LEVEL**: 100

1a) C8H9, C7H7N

b) Organic compounds have versatile bonding patterns and are part of all living organisms.

c) The ring of homocyclic compounds is made up of carbon atoms only while the ring of heterocyclic compounds is made up of more than one kind of atom.

2a) Rf of A= distance travelled by A/distance of the solvent front =2.4/12.2= 12/61.

Rf of B = distance travelled by B/distance of the solvent front =5.6/12.2 = 28/61.

Rf of C = distance travelled by C /distance of the solvent front =8.9/12.2 =89/122.

b) A Aldehydes

B Alkenes

c) For detecting Aldehydes and ketones.

d)

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|  | Functional groups | Examples |
| a | -Cl , -F, -Br, I | CH3CL, C2H5BR |
| b | -OH | CH3OH, C2H5OH |
| c | -COH | CH3COH, C2H5COH |
| d | -O | CH3O, C2H5O |
| e | -NH2 | CH3NH2, C2H5NH2 |
| f | -CONH2 | CH3CONH2,C2H5CONH2 |
| g | -CO | CH3CO, C2H5CO |