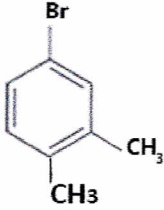
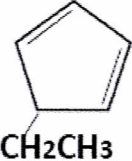
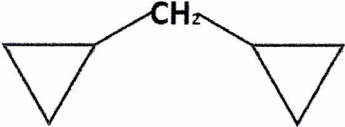
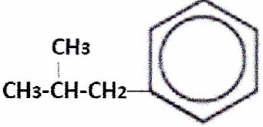
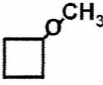
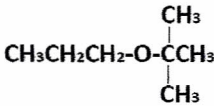
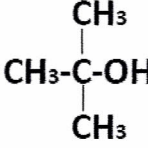
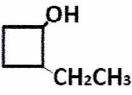
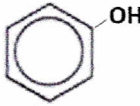
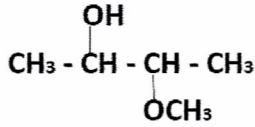
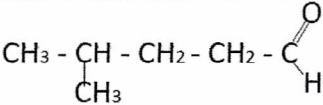
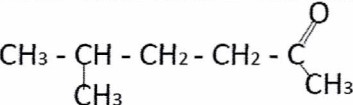
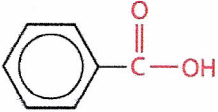


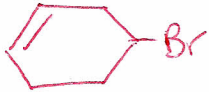
All Organic Compounds Nomenclature

1. Name the following compounds using IUPAC rules.

 a) 1-bromo-4-methylbenzene	 b) 5-ethyl-1,3-cyclopentadiene
 c) dicyclopropylmethane	 d) 2-methyl-1-phenylpropane
CH₃-CH₂-O-CH₂-CH₂-CH₃ e) 1-ethoxypropane	 f) methoxycyclobutane
 g) 2-methyl-2-propoxypropane	 h) Methyl – 2-propanol
HO – CH₂-CH₂-OH i) 1,2-ethandiol	 j) 2-ethylcyclobutanol
 k) phenol	 l) 3-methoxy-2-butanol
 m) 4-methylpentanal	 n) 5-methyl-2-hexanone

$\text{CH}_3 - \text{C} \begin{array}{l} \nearrow \text{O} \\ \searrow \text{OH} \end{array}$ o) Ethanoic acid	$\begin{array}{c} \text{CH}_3 - \text{CH} - \text{CH} - \text{C} \begin{array}{l} \nearrow \text{O} \\ \searrow \text{OH} \end{array} \\ \quad \\ \text{CH}_3 \text{CH}_2 \\ \\ \text{CH}_3 \end{array}$ p) 2-ethyl-3-methylbutanoic acid
 q) Benzoic acid	$\text{HO} - \text{C} \begin{array}{l} \nearrow \text{O} \\ \searrow \end{array} - \text{CH}_2 - \text{C} \begin{array}{l} \nearrow \text{O} \\ \searrow \end{array} - \text{OH}$ r) Propanedioic acid
$\text{CH}_3 - \text{CH}_2 - \text{C} \begin{array}{l} \nearrow \text{O} \\ \searrow \text{O} - \text{CH}_3 \end{array}$ s) methylpropanoate	$\text{H}_3\text{C} - \text{CH}_2 - \text{CH}_2 - \text{O} - \text{C} \begin{array}{l} \nearrow \text{O} \\ \searrow \end{array} - \text{CH}_3$ t) propylethanoate

2. Draw the condensed structural diagrams for:

a) 3,3-dimethyl-1-butyne $\text{CH} \equiv \text{C} - \underset{\text{CH}_3}{\overset{\text{CH}_3}{\text{C}}} - \text{CH}_3$	b) 1,3-pentandione $\text{CH}_2 = \text{CH} - \text{CH} = \text{CH} - \text{CH}_3$
c) 4-bromo-1-cyclohexene 	d) 2-ethoxy-3-methylbutane $\text{CH}_3 - \underset{\text{CH}_3}{\overset{\text{OCH}_2\text{CH}_3}{\text{CH}}} - \text{CH} - \text{CH}_3$
e) 2,2-butandiol $\text{CH}_3 - \underset{\text{OH}}{\overset{\text{OH}}{\text{C}}} - \text{CH}_2 - \text{CH}_3$	f) Phenol 
g) Hexanal $\text{CH}_3 - \text{CH}_2 - \text{CH}_2 - \text{CH}_2 - \text{CH}_2 - \text{C} \begin{array}{l} \nearrow \text{O} \\ \searrow \text{H} \end{array}$	h) 5-ethyl-4-methyl-3-octanone $\text{CH}_3 - \text{CH}_2 - \underset{\text{O}}{\overset{\text{CH}_3}{\text{C}}} - \underset{\text{CH}_2\text{CH}_3}{\text{CH}} - \underset{\text{CH}_3}{\text{CH}} - \text{CH}_2 - \text{CH}_2 - \text{CH}_3$
i) 2-methoxybutanal $\text{CH}_3 - \text{CH}_2 - \underset{\text{OCH}_3}{\text{CH}} - \text{C} \begin{array}{l} \nearrow \text{O} \\ \searrow \text{H} \end{array}$	j) 2,3-dimethylpentanoic acid $\text{CH}_3 - \text{CH}_2 - \underset{\text{CH}_3}{\text{CH}} - \underset{\text{CH}_3}{\text{CH}} - \text{C} \begin{array}{l} \nearrow \text{O} \\ \searrow \text{OH} \end{array}$
k) Methylmethanoate $\text{HC} \begin{array}{l} \nearrow \text{O} \\ \searrow \end{array} - \text{OCH}_3$	l) Ethyl 2-methylbutanoate $\text{C} - \text{C} - \underset{\text{CH}_3}{\text{C}} - \text{C} \begin{array}{l} \nearrow \text{O} \\ \searrow \text{OCH}_2\text{CH}_3 \end{array}$