

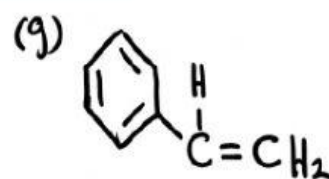
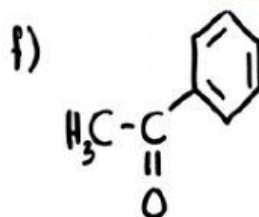
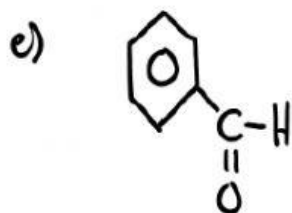
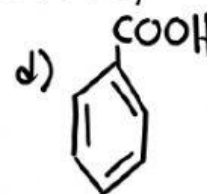
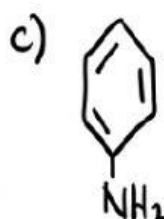
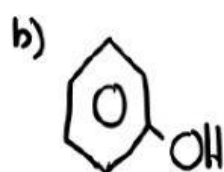
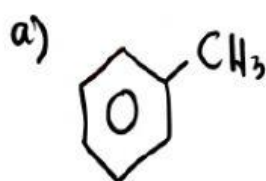
Priority of functional groups in naming organic compounds

Decreasing priority ↓

Class of Compound	Name as Parent	Functional group
Carboxylic acids	-oic acids	$R\text{COOH}$
esters	-oate	$RC-O-R$
amides	-amide	$R\overset{\overset{O}{\parallel}}{C}-N-$
nitriles	-nitrile	$C\equiv N$
aldehydes	-al	$R\overset{\overset{O}{\parallel}}{C}-H$
ketones	-one	$R\overset{\overset{O}{\parallel}}{C}R$
alcohols	-ol	RCH_2OH
amines	-amine	$R-N-$
alkenes	-ene	$C=C$
alkynes	-yne	$C\equiv C$
alkanes	-ane	
Ethers		$R-O-R$
halides		RX

15

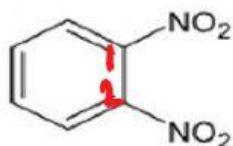
A few common aromatic compounds (IUPAC)



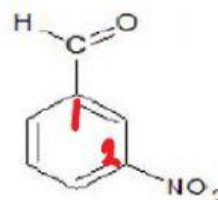
Question 1**Draw and Name the Benzene Derivatives**

1. Give IUPAC name for each compound below.

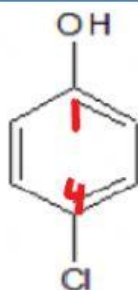
a)



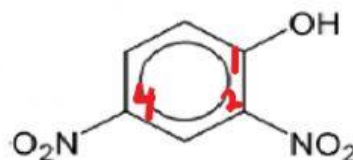
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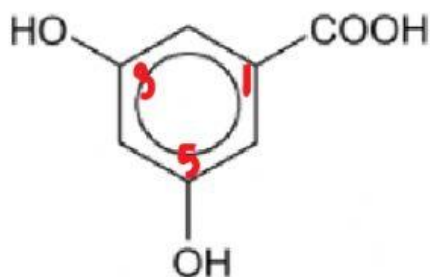
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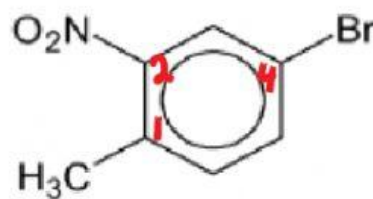
d)



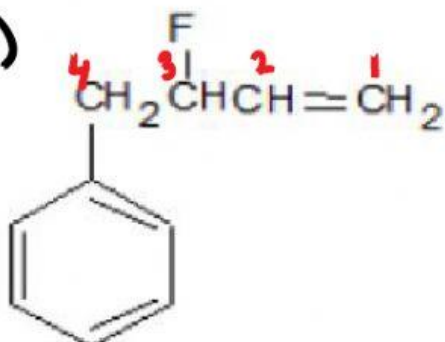
e)



f)

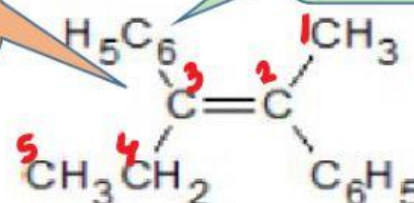


g)



Phenyls are
OPPOSITE
to
each other

h)

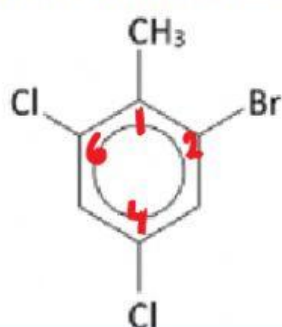


Benzene as a
substituent:
phenyl

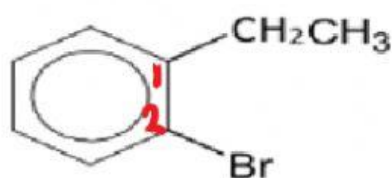
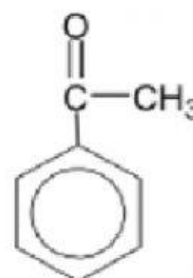
QUESTION 4

Give IUPAC names for the following compounds.

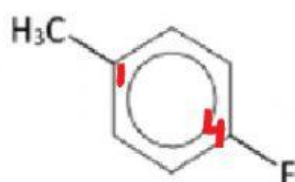
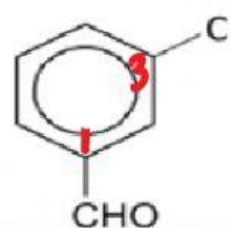
a)



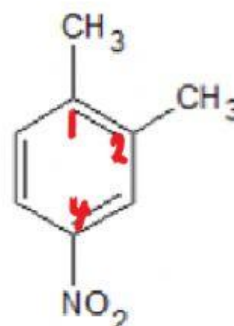
d)



e)

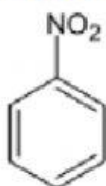


f)

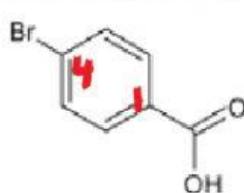
**QUESTION 7**

Name the compounds below according to the IUPAC nomenclature.

i.



ii.



iii.

