INTERNATIONAL INDIAN SCHOOL RIYADH

Grade11			WORKSH	HEET	
Sub: Chemis	try	Organi	c chemistry &	k Hydrocarbons	
1.Mention the	e type of l	hybridization	of each carbor	on in the compounds	
CH3CN ,CH2	=C=O ,Cl	H3- CH=CH2			
2.In sulphur e		_		pound gave 0.4813g og Barium sulphate .What is th	ne
	Na		Red hot tube	e ,873K	
3. A	<	C2H2		→B	
Identify A	and B				
4.Classify the	following	pairs as posi	tion ,chain ,fun	nctional isomers or metamers	
i)Diethylami	ne and m	ethylpropylar	nine ii)Ethanol	ol and dimethylether.	
5.Draw cis an	d trans iso	omers of hex-	2-ene.Which is	isomer will have higher boiling point?	
6.Identiify ele	ctrophilic	centre in the	following CH3	3CHO and CH3CN	
7.Name a suit	able tech	nique for the	separation of	f calcium sulphate and camphor	
8.Indicate the	number	of sigma and	pi bonds in HC	CONHCH3	
9.Why is a sol present in an			bsorb carbon (dioxide evolved during the estimation of carbon	
10.Describe tl	he princip	les of distilla	tion under redu	duced pressure and steam distillation	
				ively estimate extra elements in organic estimated by this method	
i)A known ma	iss of orga	nic compoun	d is heated wit	rith fuming HNO3 in presence of AgNO3	
ii)Organic con	npound is	heated with	dry copper oxi	xide in an atmosphere of CO2	
12.Give the co	ondensed	and bondline	e structural for	rmula and identify the functional groups (if any)	
i)2,2,4-tri n	nethylper	ntane ii)2-Hyd	lroxy -1,2,3-pro	ropane tricarboxylic acid iii)Cycloocta -1,5-diene	

HYDROCARBONS

1Convert I)Phenol to benzene II)Benzene to p-nitrotoluene iii)methylbromide to ethane

iv)Benzene to acetophenone v) Ethanoic acid to methane

- 2.State Markovnikov rule .Using this rule write the reactions of propene with a)HBr b)H2O
- 3.An unknown alkene A on reductive ozonolysis gives two isomeric carbonyl compounds B and C Having molecular formula C3H6O.Write the structures of A,B,C
- 4. Give reason: a) Alkynes are acidic

b)Cis but-2-ene has higher dipolemoment than trans but-2-ene

c)n-Pentane has higher boiling point than neopentane

5. Write structures of products

- 6. What happens when 2-Bromobutane is being treated with KOH (alc)?
- 7.Explain the reason for extra ordinary stability of benzene inspite of presence of three double bonds present in it .
- 8. Write IUPAC names of I) CH3-CH=CH-COCH3 (II)CH3-CO-CO-CH3 (II)(CH3)2CHCH2CH3
- 9. Propanal and pentan-3-one are the ozonolysis producs of an alkene . What is the structural formula of the alkene.?

10How will you convert the following compounds to benzene?

(i)Ethane (ii)Ethene (iiI)Hexane