ICSE Living Science CHEMISTRY

Living Science
Chemistry

Class 10

Multiple-Choice Questions

CHAPTER 13: ORGANIC CHEMISTRY-II

1.	Lower alkanes are found naturally in association wi	wer alkanes are found naturally in association with and and					
	(a) coal, petroleum.	(b)	natural gas, petroleum.				
	(c) coal, natural gas.	(d)	coal, kerosene.				
	Ans: a						
2.	is the main constituent of the marsh gas.						
	(a) Ethane	(b)	Ethanoic acid				
	(c) Ether	(d)	Methane				
	Ans: d						
3.	Alkanes are prepared by the of acid salts.						
	(a) halogenation	(b)	carboxylation				
	(c) decarboxylation	(d)	hydrogenation				
	Ans: c						
4.	Methane gas is collected by the downward displacement of water as it is						
	(a) soluble in water and lighter than air.						
	(b) insoluble in water and heavier than air.						
	(c) soluble in water and heavier than air.						
	(d) insoluble in water and lighter than air.						
	Ans: d						
5.	The reaction between sodium propionate and sodalime is described as decarboxylation because thegroup in sodium acetate is replaced by a atom.						
	(a) carboxyl, hydrogen		alkane, hydrogen				
	(c) aldehyde, carbon		ketone, oxygen				
	Ans: a						
6.	When an alkyl halide is treated with metallic sodium in the presence of dry ether, an alkane with double the						
	number of carbon atoms present in the alkyl group is formed. This reaction is called reaction.						
	(a) Wartz	(b)	halogenation				
	(c) Wurtz	(d)	carboxylation				
	Ans: c						
7.	Decomposition of a compound by the application of heat is called						
	(a) hydrolysis.	(b)	pyrolysis.				
	(c) dehydration.	(d)	hydrogenation.				
	Ans: b						

8.	Alk	canes undergo complete combustion in air to form .	•••••	and		
	(a)	carbon dioxide, water vapour.	(b)	carbon, hydrogen.		
	(c)	carbon monoxide, water. Ans: a	(d)	carbon monoxide, hydrogen.		
9.	All	All saturated hydrocarbons undergo reactions.				
	(a)	addition	(b)	combination		
	(c)	substitution Ans: c	(d)	hydrogenation		
10.	Methane cannot be used to make					
	(a)	hydrogen.	(b)	carbon tetrachloride.		
	(c)	acetylene. Ans: d	(d)	carbon monoxide.		
11.	and are two examples of greenhouse gases.					
	(a)	Hydrogen, methane	(b)	Carbon dioxide, methane		
	(c)	Carbon dioxide, nitrogen Ans: b	(d)	Hydrogen, nitrogen		
12.	Alkenes are prepared by the of ethyl alcohol.					
	(a)	dehydration	(b)	dehydrogenation		
	(c)	addition Ans: a	(d)	halogenation		
13.	Ethene is collected by downward displacement of water as it is a/an gas and in water					
	(a)	flammable, soluble	(b)	flammable, insoluble		
	(c)	inflammable, insoluble Ans: c	(d)	inflammable, soluble		
14.	Eth	Ethene reacts with concentrated sulphuric acid to form				
	(a)	methyl hydrogensulphate.	(b)	ethyl hydrosulphate.		
	(c)	ethyl sulphate. Ans: d	(d)	ethyl hydrogensulphate.		
15.	solution is called Baeyer's reagent.					
	(a)	Cold alkaline potassium permanganate	(b)	Cold acidic potassium permanganate		
	(c)	Cold alkaline potassium chloride Ans: a	(d)	Cold acidic potassium sulphate		
16.	Acetic acid combines with alcohols to form sweet smelling esters in the presence of dehydrating agents like anhydrous zinc chloride or concentrated sulphuric acid. This phenomenon is called					
	(a)	acetylation.	(b)	chlorination.		
	(c)	esterification. Ans: c	(d)	dehydration.		
17	In	dilute form, is used as vinegar which is	S IIC	ed for preserving and flavouring food		
17.		ethane		formic acid		
		ethyne		acetic acid		
	(-)	Ans: d	()			

18.	8. Ethanol, on controlled oxidation in the presence of acidified potassium dichromate or finely divided copper 300 °C, first forms and then and then			
	(a) acetic acid, acetaldehyde.	(b)	acetaldehyde, acetic acid.	
	(c) formic acid, acetaldehyde.	(d)	acetaldehyde, formic acid.	
	Ans: b			
19.	19. The flame formed due to the combustion of ethyne with oxygen gives an extremely high temperature in range of			
	(a) 100 °C.	(b)	200 °C.	
	(c) 300 °C.	(d)	400 °C.	
	Ans: c			
20.	Ethyne is prepared by the action of water on			
	(a) calcium chloride.	(b)	calcium sulphate.	
	(c) calcium hydroxide.	(d)	calcium carbide.	
	Ans: d			