## **ORGANIC COMPOUND CONTAINING OXYGEN & AMINES**

<ol> <li>Boiling point of p-intro phenol is more than o-nitro phenol because</li> <li>Inter molecular hydrogen bonding occurs in p-nitro phenol</li> <li>inter molecular hydrogen bonding occurs in o-nitro phenol</li> <li>intra molecular hydrogen bonding occurs in p nitro phenol</li> </ol>										
						4) all incorrect				
					r	The product formed when phenol is heated with ammona at 300C in presence of zinc				
Ζ.	shleride dehydrating agent is									
	1) Aniling 2) benzemide 2) isocurated (1) phenyl evenide									
2	Conversion of Vetcons into hydrocenthous by reduction is known as									
э.	1) Posenmund reduction 2) Clemensen's reduction									
	1) Rosenmula reduction     2) Clemensen's reduction       2) debudration     4) none									
	3) denydration 4) none									
4. When an aldehyde was heated with alkli part of it was converted into alcohol a										
	into an acid. The aldehyde is 1) An aliphatic aldehyde other than formaldehyde									
	2) an allphatic aldehyde or salicyladehyde									
	3) an aromatic aldehyde other than salleyladehyde									
_	4) an aromatic aldehyde or formaldehyde									
5.	A compound containing only carbon, hydrogen and oxygen has a molecular mass of 44. On									
	oxidation, it is converted into an acid with molecular mass 60. The original compound is									
~	1) Aldehyde 2) alcohol 3) ether 4) acid									
6.	An aldehyde can be obtained by dehydrogenation of									
	1) A primary alcohol using conc. Sulphuric acid									
	2) a primary alcohol using Ni 3) a primary alcohol using Cu catalyst									
7	4) a secondary alconol using Cu catalyst									
1.	An organic acid was converted into its calcium salt and the dry salt was heated in a retort									
	our of contact with air. If the product was acetone then the organic acid is									
0	1) Formic acid 2) oxalic acid 3) lactic acid 4) acetic acid									
δ.	Aldenydes and ketones form addition products with									
0	1) Pheyr hydrazine 2) Hydrazine 3) Semi-carbazide 4) HCN									
9.	Phenol on exposure to air develops red colour due to									
	1) Air it to produce red phenoquinone 2) phenoi is unstable									
10	3) phenol is reduced to benzene by air 4) none of these Which of the following does not give costal ablandar to the treated with costing and									
10.	which of the following does not give acetyl chloride when treated with acetic acid, 1) SOCI $2)$ PCI $2)$ PCI $4)$ CI									
11	1) $SOCI_2$ 2) $PCI_3$ 3) $PCI_5$ 4) $CI_2$									
11.	which of the following is food preservative,									
10	1) acetic acid 2) saiol 3) sodium benzoate 4) methyl sancylate									
12.	A cyanonyurins of compound A on hydrolysis gives CH3-CH(OH)-COOH. Then the									
	compound A is									
10	1) Formaldenyde 2) benzaldenyde 3) acetaidenyde 4) acetone									
13.	13. In the series of reaction 'E' is PCI5 alc.KCN hydrolysis Ca(OH)2 distillation									
	$CH3OH \longrightarrow A \longrightarrow B \longrightarrow C \longrightarrow D \longrightarrow E.$									
	1) Acetaldehyde 2) acetic acid 3) acetone 4) methyl acetate									

- 14. Vinegar contains
  - 1) 10 20% acetic acid 2) 8-10% acetic acid

	3) 100% acetic acid	4) none				
15.	With respect to functional group phenol resembles					
	1) Aldehydes 2) ketones	3) ether	4) alcohol			
16.	Phenol is insoluble in					
	1) Ether 2) benzene	3) dil sodium h	ydroxide	4) dil HCL		
17.	Bakelite is obtained from phe	nol by treating v	with			
	1) Formaldehyde 2) benzaldehyde 3) acetaldehyde 4) chlorobenzene					
18.	3. Which of the below method is used to prepare aldehydes					
	1) Reaction of acid chloride with hydrogen in presence of Pd/BaSO4					
	2) dehydrogenation of a sec. alcohol					
	3) treatment of Grignard reagent with CO2 4) acylation of benzene					
19.	9. Clemeonson's reduction of acetophenoane yields					
	1) Ethyl benzene2) phenyl benzene					
	3) phenyl methyl carbinol 4) dihyroxy benzene					
20.	). Aldehyde and ketones differs in the reaction with					
	1) NaHSO3 2) forming oximes					
	3) Schiff's reagent 4) forming cyanohydrin					
21.	1. An aldehyde X reduces Tollen's regent to silver mirror. But fails to restore red ppt. of Cu <sub>2</sub> O					
	with Fehling's solution. The compound 'X' is					
	1) Formaldehyde	2) propionaldeh	iyde			
	3) benzaldehyde	4) crotonaldehy	'de			
22.	Which of the below compo	und will underg	go both aldo	l condensation and Cannizzaro's		
	reaction with alkali.					
	1) (CH3)2CHCHO	2) CH3CHO				
	3) CH3CH2CHO	4) (CH3	)3CCHO			
23. The gas formed during the hydrolysis of nitrile is						
24	1) CO2 2) CO 3) H2 4) NH3					
24.	4. Increasing order of acidic strength of following monocarboxylic acid is i) HCOOH, ii) CH3COOH, iii) CICH2COOH, iv) NO2CH2COOH					
25	1) is its its 2) its its is 3) its its its $(4)$ its its its is $(4)$					
23.	5. The electrolysis product of sodium salt of fatty acid is					
26	1) Alkane 2) alkene 3) alkyne 4) alcohol					
20.	<ul> <li>An organic acid without carboxylic group is</li> <li>Diorio acid 2) ovalio acid 3) vinegar (1) tertario acid</li> </ul>					
27	1) Picric acid 2) oxalic acid 3) vinegar 4) tartaric acid 7. The reagent does not forming sold chloride is					
27.	7. The reagent does not forming acid chloride is 1) $PC15 = 2$ $PC12 = 2$ $C12 = 4$ SOC12					
28	Which of the following does	not give benzoic	acid on hydr	olysis		
20.	1) Phenyl cyanide	2) benzovl chlo	ride	019313		
	3) benzyl chloride	4) methyl benzo	nate			
29	Which acid cannot form hydr	ocarbon on deca	rboxylatiion			
_>.	1) Ciinamic acid 2) benz	zoic acid	3) salicylic ac	id 4) acetic acid		
30.	When sodium benzene sulph	onate is fused w	ith NaOH. fo	llowed by acidification with HC2.		
20.	the product formed is					
	1) Benzene sulphyonic acid	2) sodiu	m phenate			
	3) phenol	4) chlor	obenzene			
31.	The hydrogen atom of the ph	enolic group can	be displaced			
	1) only by using metallic sodium					
	2) by using either metallic sodium or sodium hydroxide					
	3) by using sodium carbonate 4) by using sodium chloride					
32. Which of the following undergoes nitration most readily?						
	1) Phenol 2) toluene	3) Nitrobenzer	ne 4) be	enzaldehyde		

33. The most convenient way to remove a phenolic group from a compound is to 1) Reduce it using tin and HCI 2) Heat it strongly with copper 3) Reduce it with stannous chloride 4) distil it with zinc dust 34. Aldehydes on oxidation give 1) Alcohols 2) acids 3) ketones 4) esters 35. Ketones on reaction with NH2 NH2 form well defined compounds called CONH 1) Hydrazones 2) Schiff's base 3) Oximes 4) Semi carbazones 36. Acetaldehyde and formaldehyde difer in their reaction with 1) Sodium bsiulphite 2) ammonia 3) Schiff's reagent 4)phenyl hydrazine 37. Dry distillation of calcium formate gives 1) Formic acid 2) methanol 3) ethanal 4) acetone 38. Ammonia reacts with formaldehyde to form 1) Urotropine 2) mesitylene 3) RDX 4) dormaldehyde 39. Phenol on reaction with bromine water gives 1) O-bromophenol 2) p- bromophenol 3) 2, 4, 6 -tribromophenol 4) 2, 4 - dibromophenol 40. Alkyl halide is boiled with alcohgolic ammonia in 1:1 ratio, the product is 1) An amide 2) Grinard reagent 3) an amine 4) an alcohol 41. Alkyl halide is converted into alkyl cyanide by using 2) alcoholic AgCN 1) Alcoholic KCN 4) alcoholic ammonia 3) HCN 42. The IUPAC name of isopropyl amine is 1) Dimethyl amine 2) propane-2-amine 3) N-methyl ethanamine 4) ethyl methyl amine 43. Propanoic acid is heated with ammonia. The product formed is subjected to Hoffmann's 2) ethanamine 3) 2-propanamine 1) Propanamine 4) methanamine 44. The amine which does not undergo Hoffmann's bromamide degradation is 1) Acetamide 2) benzamide 3) propionamide 4) formamide 45. The one which does not liberate nitrogen gas is with nitrous acid is 1) Ethanamine 2) methanamine 3) propanamine 4) aniline 46. An organic compound liberates nitrogen gas with HNO<sub>2</sub> & a foul smelling poisonous gas with chloroform and alkali. The organic compound is 1)An aliphatic primary amine 2) a sec. amine 3) a ter. Amine 4) an aromatic primary amine 47. Which of the following is weakest acid 1) p. nitrophenol 2) p.chloro phenol 3) 2,4-dinitro phenol 4) 2,4,6-trinitro phenol 48. The carbonylcarbon is ..... hybridized in carbonyl compounds 2) sp 3) sp<sup>2</sup> 4)  $dsp^{2}$ 1)  $sp^{3}$ 49. cannizzaro's reaction is not answered by 1) acetaldehyde 2) trimethyl acetaldehyde 3) formaldehyde 4) salicyladehyde 50. The reagent which can distinguish formic acid from acetic acid is

1) PCL5 2) ammoniacal silver nitrate 3) I2/NaOH 4) NaOH