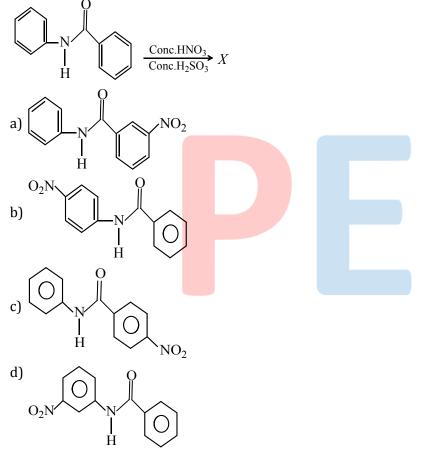


Class : XIIth Date : Subject : CHEMISTRY DPP No. : 2

## Topic :- Amines

1. In the following reaction, the product *X* is:



- 2. Indicate the correct statement.
  - a)  $C_2H_5N^+H_3OH^-$  is acidic
  - b)  $C_2H_5NH_2$  is less basic than  $NH_3$
  - c)  $_{C_2H_5NH_2}$  is a stronger base than  $\rm NH_3$
  - d)  $_{C_2H_5NH_2}$  forms salts with bases

The compound will react most readily with NaOH to form methanol is

3.

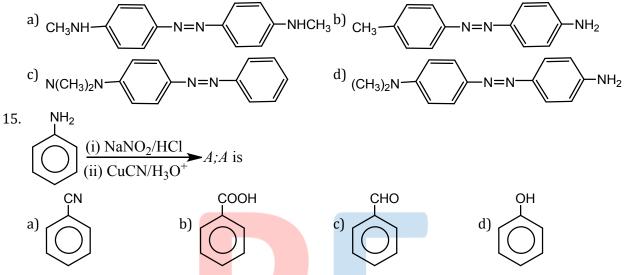
	a) <sub>(CH3)4</sub> N <sup>+</sup> I <sup>-</sup>	b) CH <sub>3</sub> OCH <sub>3</sub>	c) (CH <sub>3</sub> ) <sub>3</sub> S <sup>+</sup> I <sup>-</sup>	d)(CH <sub>3</sub> ) <sub>3</sub> CI
4.	Increasing order of basicity of $CH_3CH_2CH_2NH_2$ $H_2C = CHCH_2NH_2$ and $HC \equiv CCH_2NH_2$ is			
	a) $CH_3CH_2CH_2NH_2 < HC \equiv CCH_2NH_2 < H_2C = CHC_b)_{CH_3CH_2CH_2NH_2} < H_2C = CHCH_2NH_2 < C_2CH_2NH_2$		$H_2C = CHCH_2NH_2 < CH \equiv H$	
	c) $HC \equiv CCH_2NH_2 < H_2C = CHCH_2NH_2 < CH_3CH_2(d)$ $GM \equiv CCH_2NH_2 < CH_3CH_2CH_2NH_2 < H_2C = CL_2NH_2 = CH_2NH_2 = $			$H_3CH_2CH_2NH_2 < H_2C = C  H$
5.	Reduction of aniline with acetyl chloride in presence of NaOH produce			
	a)Aniline hydrochlorid	eb) Acetanilide	c) <i>p</i> -choloroaniline	d)A red dye
6.	The molecular formula C <sub>3</sub> H <sub>9</sub> N cannot represent			
	a) <sub>1°amine</sub>	b) <sub>2°amine</sub>	c) <sub>3°amine</sub>	d)Quaternary salt
7.	$(A)C_{2}H_{5}NH_{2}(i)NOCI[W]_{(ii)AgNO_{2}}$ $(B)(CH_{3})_{2}CHNH_{2}(i)NO_{(ii)AgNO_{2}}$ $(C)(CH_{3})_{3}CNH_{2}(i)NO_{(ii)AgNO_{2}}$ $(D)CH_{3}CH(NH_{2})C_{2}H_{5}(i)$ $(ii)Mich product will not$	CI[X] 0 <sub>2</sub> 1 [Y] 2 )NOC1[Z] i)AgNO <sub>2</sub>		
	a) <sub>W</sub>	b) <sub>X</sub>	c) <sub>Y</sub>	d) $_Z$
8.	Carcinogens are the products of the reaction between:			
	a) $_{R_2\text{NH}}$ + HNO <sub>2</sub>	b) $R_{3}N + HNO_{2}$	c) $_{RNH_2} + HNO_2$	d)None of these
9.	Acetonitriles on hydrolysis produce which of the following?			
	a)Amine	b) Acid	c) Amides	d)Carbonyl compounds
10. Primary, secondary and tertiary nitroalkanes can be identified by the action of:				
	a) $_{\rm HNO_2}$ + NaOH(aq.)	b) $CHCl_3 + NaOH(aq.)$	c) $CHCl_3 + KOH(alc.)$	d)None of these
11. Methyl cyanide gives on hydrolysis				
	a)Methyl amine	b) Acetic acid	c) Formic acid	d)Ethyl amine
12. The hydrochlorides of amines form double salt with:				

a) 
$$_{PtCl_4}$$
 b)  $_{AuCl_3}$  c) Both (a) and (b) d) None of these

13. General formula of an amine is:

a)
$$_{C_nH_{2n+1}N}$$
 b) $_{C_nH_{2n+2}N}$  c) $_{C_nH_{2n+3}N}$  d) $_{C_nH_{2n}N}$ 

14. Aniline when diazotized in cold and then treated with dimethyl aniline gives a coloured product. Its structure would be



16. The structure of the compound formed, when nitrobenzene is reduced by lithium aluminium hydride (LiAIH<sub>4</sub>)is



17. Aniline and ethylamine resembles in:

a)Solubility

b)Action with HNO<sub>2</sub>

c) Action of Grignard reagent

- d)Coupling reaction
- 18. Reaction of cyclohexanone with dimethylamine in the presence of catalytic amount of an acid forms a compound of water during the reaction is continuously removed. The compound formed is generally known as a) An amine

b) An imine

c) An enamine

d) A Schiff's base

- 19. Comparing basic strength of NH<sub>3</sub>, CH<sub>3</sub>NH<sub>2</sub> and C<sub>6</sub>H<sub>5</sub>NH<sub>2</sub> it may be concluded that
  a) Basic strength remains unaffected
  b) Basic strength of alkyl amines is lowest
  c) Basic strength of aryl amines is lowest
  d) Basic strength of NH<sub>3</sub> is highest
- 20. The product obtained when methylamine is treated with nitrous acid is:
  - a)  $_{CH_3OH}$  b)  $_{CH_3-ONO}$  c)  $_{CH_3OCH_3}$  d) Both (b) and (c)

