DPP
DAILY PRACTICE PROBLEMS

Class: XIIth Date:

Solutions

Subject : CHEMISTRY

DPP No.: 7

Topic:- Amines

1 **(c)**

R—NH₂ + HNO₂—ROH + N₂ + H₂O; But note that CH₃NH₂ gives CH₃ONO or CH₃OCH₃ on treating with HNO₂.

2 **(c)**

The conversion of —CN to —CH₂NH₂ by catalytic reduction is called Mendius reaction.

4 **(c)**

Schmidt reaction

O $R - C - OHNaN_3R - NH_2 + N_2 + CO_2$

6 **(c)**

Methylaminomethane is trivial name of N-methyl methanamine (CH₃)₂NH.

7 **(a)**

 $C_3H_9N(A)HNO_2Alcohol + N_2\} \Rightarrow A \text{ is } 1^\circ \text{ amine, } i.e.,$

 C_3H_9N is $C_3H_7NH_2$

$$C_3H_9N \xrightarrow{KOH + CHCl_3} Carbylamine \xrightarrow{Reduction}$$

$$CH_3$$
 $CH-NH-CH_3 \Rightarrow$ Alkyl part is CH_3 $CH-Hence$, CH_3 $CH-Hence$, CH_3 CH

$$C_3H_9N$$
 is CH_3 $CH-NH_2$

8 **(c)**

 $NH_{2}CONH_{2} + HNHCONH_{2} \underset{\text{Biuret}}{\Delta} NH_{2}CONHCONH_{2}$

9 **(c)**

In tertiary amines, no H-atom is attached directly to the more electronegative N-atom. Hence, it has no tendency to form H-bond

10 **(a)**

The order of boiling points of the isomeric amines is as fallows:

Primary amines > secondary amines > tertiary amines

$$(1^{\circ} > 2^{\circ} > 3^{\circ})$$

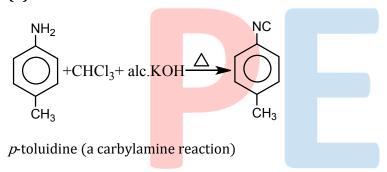
11 **(c)**

$$R$$
— $CONH_2 + Br_2 + KOH \rightarrow R$ — NH_2

12 **(c)**

$$C_2H_5NH_2HNO_2C_2H_5OH + N_2\uparrow + H_2O$$

16 **(d)**



17 **(a)**

Ethyl isocyanide on hydrolysis in acidic medium gives methanoic acid and ethyl amline salt

$$C_2H_5NC + H_2O \underbrace{H + HCOOH}_{+ C_2H_5NH_2}$$

methanoic acid

$$C_2H_5NH_2 + H^+ \rightarrow C_2H_5NH_3^+$$

Ethylamine salt

18 **(d)**

$$CH_{3}I + NH_{3} \rightarrow CH_{3}NH_{2} \xrightarrow{CH_{3}I} (CH_{3})_{2}NH \xrightarrow{CH_{3}I} (CH_{3})_{3}N \xrightarrow{CH_{3}I} (CH_{3})_{4}N^{+}I^{-}$$

20 **(c)**

Secondary amine on reaction with aq. HNO_2 at low temperature produces yellow oily nitrosoamines. $CH_3CH_2NHCH_2CH_3$ is secondary amine.

ANSWER-KEY										
Q.	1	2	3	4	5	6	7	8	9	10
A.	С	С	C	С	D	С	A	С	С	A
Q.	11	12	13	14	15	16	17	18	19	20
A.	С	С	C	В	A	D	A	D	D	C