. (6	539		
1	putially amines have lowest boiling point at the not form H bonds	400	MHT-CET
di.	do not form H bonds	amongst isomeric ami	nes because they
	are most basic in character	, molecular molecular	ular mass
		The state of the s	ature.
	Nomenclature	of amines	
	NH,	2004]	
	The IUPAC name of H <sub>3</sub> C-CH-CH <sub>3</sub>		
in the	a) dimethyl amine b) 2-aminopropane	c) isopropylamine d)	2-propagamine
	riviti I - ( H.	20201	2-propananime
	WPAC name of benzylamine is	2020]	
-	a) benzeneamine	h) phonul	
	g) phenylethanamine	b) phenylmethanamin	
u).	IUPAC name of CH <sub>3</sub> N(C <sub>2</sub> H <sub>5</sub> ) <sub>2</sub> is	d) N-Methylbenzenan	iine
in.	a) N. N-diethylmethanamine	b) N-methyldiethanar	nina
	c) N-ethyl-N-methylethanamine	d) N-methylethanami	
	[MHT-CE]		nic .
	What is the IUPAC name of $(CH_3)_2$ -N-CH	2022]	
31.	a) 2, 2-Dimethylmethanamine		
	c) N-Methyldimethanamine	<ul><li>b) Trimethylamine</li><li>d) N, N-Dimethylmethanamine</li></ul>	
			lalianinie
	Preparation of		
	[MHT-CET	T 2005]	
32.	Acetonitrile on reducing gives	\ .1 ·	
	a) propanamine b) methanamine		none of these
33.	$CH_3Br + KCN (alc.) \rightarrow X \frac{Reduction}{Na/C_2H_5OH} - Y$	. What is Y in the series	?
		c) C <sub>2</sub> H <sub>5</sub> NH <sub>2</sub> d)	
	[MHT-CE		· · ·
34.			duction gave another
21.	compound B, upon treatment with nitrous acid "B" gave ethyl alcohol. On warming with chloroform and alcoholic KOH, it formed an offensive smelling compound "C".		
	The compound "C" is  a) $CH_3CH_2NH_2$ b) $CH_3CH_2N \not\equiv C$	c) CH <sub>2</sub> C≡N d)	CH <sub>3</sub> CH <sub>2</sub> OH
	a) $CH_3CH_2NH_2$ b) $CH_3CH_2N = C$ [MHT-CE]	r annal	32
35.			is
-5,	The compound that forms a yellow only a) 2-methyl aniline b) methyl amine	c) benzyl amine d)	diethyl amine
36.	In the following reaction sequence. Identi	fy B.	*
	at the following reaction sequent	, C	
	Ethyl amine $\xrightarrow{\text{HNO}_2}$ A $\xrightarrow{\text{PCl}_2}$ B $\xrightarrow{\text{NH}_3}$	→ CH CH-NH 4/	(CH.) NIL
	a) $CH_3NH_2$ b) $C_2H_5Cl$	c) CH <sub>3</sub> CH=NH d)	(CH3)2NH2

	541		MHT-CET
ine	When propanamide is treated with brom	ine and according	WITH The
	1-propanamine b) ethanamine 1-propanamine b) ethanamine 1-propanamine water at room 2, 4, 6-Tribromoaniline	c) bromopropane i temperature to gi b) Bromoaniline d) 3-Bromoaniline owing reactions?	
	$_{a}$ $C_6H_5Cl$ b) $C_6H_5F$ Identify compound A in following reaction	c) C <sub>6</sub> H <sub>5</sub> NO <sub>2</sub>	d) C <sub>6</sub> H <sub>5</sub> NH <sub>2</sub>
	$C_2H_5N(CH_3)_3OH^- \xrightarrow{\Delta} A + (CH_3)_3N + 1$	H <sub>2</sub> O	
	a) C <sub>6</sub> H <sub>5</sub> NH <sub>2</sub> b) CH <sub>3</sub> CH <sub>3</sub> Identify 'A' and 'B' in following reaction re	c) CH <sub>2</sub> CH <sub>2</sub> OH	d) $CH_2 = CH_2$
	Acetanilide $\xrightarrow{Br_2}$ A $\xrightarrow{H^+ \text{ or }}$ B		
0.	a) 4-Bromoaniline and 4-Bromoacetanilide b) p-Bromoacetanilide and p-Bromoanilide c) Aniline and p-Bromoacetanilide d) Aniline and p-Bromoaniline Which of the following reactions does NO	ne	
	a) $R-CN + H_2O \xrightarrow{H^+}$	b) $R-X + NH_3$ (alco	o.)
	c) R-CH = NOH $C_2H_5OH$	d) R-NO <sub>2</sub> sn/cond	
	Which of the following compounds is obtains strongly heated?  a) Alkyne  b) Amide  Identify product B in following reaction.  Acetanilide $\frac{\text{conc.HNO}_3}{\text{conc.H}_2\text{SO}_4}$ A $\frac{\text{H}^+}{\text{or OH}^-}$ B		ry ammonium hydroxide d) Alkane
	a) O-Nitroacetanilide c) Nitrobenzene Which of the following amines cannot be a) Isopropylamine Which of the following reagents is used is a) CHCl <sub>3</sub> +KOH b) CH <sub>3</sub> COCl	n Hoffmann elimina	el phthalimide synthesis e d) Aniline

	1543	MHT-CET
identify the product obtined in the	following reaction.	
MaNO2+HC1,273K		
Identity the P $\frac{0 \text{ NaNO}_2 + \text{HC1}, 273 \text{ K}}{\text{ii}) \text{H}_2 \text{O}, \Delta} \rightarrow \text{Product}$ Aniline		
o Nitroani	lino s ne r	d) p-Nitroaniline
	ts with nitrous acid	to form alcohol?
	b) Trimethyl	amine
Methyl phenyl amine  Methyl phenyl amine	d) Isopropyl	amine
the Hunter of the Color of the Color	oms required to prep	oare one mole ethylamine from
me mole acetantide.		
01 3	c) 3	d) 1
among following statements	is NOT true about C	Sabriel phthalimide synthesis:
to this method formation of N-a	IKyl phthalimide is i	involved.
to this method sodium phthalate	e is also obtained	
This method is useful for prepar	ration of aromatic ar	mines
this method potassium salt of	phthalimide is forme	ed as an intermediate product
How many molecules of methyl iod	lide are required to o	obtain tetramethyl ammonium
iodide from dimethyl amine?		
a) 1 b) 3	c) 2	d) 4
1. Identify product 'B' in following re	action.	
$CH_3Br + AgNO_2 \longrightarrow A \xrightarrow{HCI} B$		222
a) CH <sub>3</sub> NO <sub>2</sub> b) CH <sub>3</sub> NH <sub>2</sub>	c) CH <sub>3</sub> Cl	d) CH <sub>3</sub> OH
[MI	HT-CET 2022]	
72. Identify Hinsberg reagent from fol	lowing	9.04
a) Benzoyl chloride	b) Benzyl cr	aloride
c) Benzene diazonium chloride		sulphonyl chloride
3. The reagent used in Hofmann elim	ination reaction is	d) Moist Ag <sub>2</sub> O
a) LiAlH <sub>4</sub> b) Na-Hg/H <sub>2</sub>	$O$ c) $HNO_2$	u) 1/10/01/12/62
74. Identify compound X in the follow	ing reaction.	
	0	
$X + SO_2Cl \longrightarrow C$	$S = N - C_2H_5 + HC$	
	0 02115	JH d) $(C_2H_5)_3-N$
a) CH <sub>3</sub> -NH-C <sub>2</sub> H <sub>5</sub> b) C <sub>2</sub> H <sub>5</sub> -NH	c) $(C_2H_5)_2-N$	of amines is
75. The end product in Hofmann's ext	naustive metry action	v amine
a) Quaternary ammonium halide	d) Tertiary	,
c) Primary amine 76. Which of the following conversion	500 BX	
	b) R-CO-N	$H_2 \longrightarrow R-CH_2 + NH_2$
a) $R-NO_2 \longrightarrow R-NH_2 + 2H_2O$		$H_2 \longrightarrow R-NH_2$
c) $R-C \equiv N \longrightarrow R-CH_2 + NH_2$	F	

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?

	MHI-CEI
	What is the name of the reaction stated below?  What is the name of the reaction stated below?
I	
	reaction
1	b) Hofmann bromamide degradation  d) Ammonolysis of alkyl halides  the number of stages involved in Cabriel and Living and the control of the
	Gabriel Prices d) Ammonolysis of alkyl halides  What is the number of stages involved in Gabriel phthalimide synthesis reactions?
1	a) 3 setoment from following is NOT connected to the LiAlHel
I	which statement when acetamide reacts with Eight
1	ether amine is obtained
ı	1 1 mass of product obtained is greater than acetamine
l	1 alton III acciditude occurs
l	Number of carbon atoms of product is same as in acetamide
	Physical and Chemical properties of amines
	[MHT-CET 2004]
	Primary amines (R NH <sub>2</sub> ) react with nitrous acid to give
şt.	a) RNH <sub>3</sub> <sup>+</sup> NO <sub>2</sub> b) ROH c) ROR d) None of these
	[MHT-CET 2005]
	Complete the following reaction, R NH <sub>2</sub> + H <sub>2</sub> SO <sub>4</sub> →
87.	complete the following 2 by $[RNH_3]^+HSO_4^-$ b) $[RNH_3]_2^+SO_4^{2-}$ c) $RNH_2$ . $H_2SO_4$ d) No reaction
	[MHT-CET 2006]
58.	The decreasing order of basic character of the three amines and ammonia is
	CIINII h) (aleNDa CIIIIII)
	a) $NH_3 > CH_3CH_2 > C_2H_5NH_2 > C_6H_5NH_2$ b) $C_2H_5NH_2 > C_6H_5NH_2 > C_6H_5NH_2 > C_6H_5NH_2 > C_8H_5NH_2 > C_8H_$
	[MHT-CET 2007]
	of acetyl chloride will give
89.	Isopropyl amine with excess of acetyl chloride will give b) (CH <sub>2</sub> ) <sub>2</sub> CH-N-COCH <sub>3</sub>
	Isopropyl amine with excess of desy a) $(CH_3CO)_2N-CH-(CH_3)_2$ b) $(CH_3)_2CH-N-COCH_3$ H
	d) CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -N-COCH <sub>3</sub>
	C) (C13))C12 ( - 0, -
	A mixture of ethyl amine, chloroform and alcoholic KOH on heating gives  c) ethyl isocyanide d) ethyl isocyanate
90.	A mixture of ethyl amine, chloroform and alcoholic Royalande d) ethyl isocyanate a) alkyl cyanide b) ethyl cyanate c) ethyl isocyanate
	a) alkyl cyanide b) ethyl cyanide
	On heating benzyl amine with chloroform and ethanolic KOH, product obtained is  On heating benzyl amine with chloroform and ethanolic KOH, product obtained is  b) henzaldehyde c) benzonitrile d) benzyl isocyanide
91.	On heating benzyl amine with chloroform and entire d) benzyl isocyanide
	a) benzyl alcohol b) benzaldehyde c) benzonitrile d) benzyl alcohol b) benzaldehyde b) benzyl alcohol b) benzaldehyde c) benzonitrile d) benzyl alcohol b) benzaldehyde c) benzonitrile d) benzyl alcohol b) b new by al
92.	
	a) N-bromamide d) ethanamine
	c) methanamine
	y memanamine

547 MHT-CET Which of the following amines is most basic in nature? a) 2 4 -Dimethylaniline 2 4 -Dichloroaniline b) 2, 4 -Dinitroaniline dentify product B in following reaction. d) 2, 4 -Dibromoaniline  $NaNO_2 \rightarrow A \xrightarrow{KI} B$ a) Nitrobenzene b) Benzyl iodide olodobenzene d) Benzenediazonium iodide which group from following decreases the basic strength in substituted aniline? b) -OCH<sub>3</sub> c) -CH<sub>3</sub> d)  $-C_6H_5$ ldentify the product B in following reaction. Acetonitrile  $\xrightarrow{\text{Na-ethanol}}$  A  $\xrightarrow{}$ a) Sodium methanoate b) Sodium ethanoate c) Ethanamine d) Ethanol Aniline on reaction with Bromine water at room temperature gives. a) m-Bromoaniline b) 2, 4, 6-T Tribromoaniline c) p-Bromoaniline d) o-Bromoniline hich Which among the following decreasing orders of boiling points is correct for amines? a) n-Butylamine > Ethyl dimethylamine > Diethylamine b) n-Butylamine > Diethylamine > Ethyl dimethylamine c) Diethylamine > Ethyl dimethylamine > n-Butylamine d) Ethyl dimethylamine > Diethylamine > n-Butylamine 110. In aqueous phase the order of basic strength of alkylamine is b)  $(CH_3)_2NH>(CH_3)_2NH_2>(CH_3)_3N>NH_3$ a)  $(CH_3)_2NH > (CH_3)_2N > CH_3NH_2 > NH_3$ d)  $CH_3NH_2>(CH_3)_2NH>(CH_3)_3N>NH_3$ c)  $(CH_3)_2N > (CH_3)_2NH > CH_3NH_2>NH_3$ 111. Which of the following compounds has highest boiling point? b) C<sub>2</sub>H<sub>5</sub>CH(CH<sub>2</sub>)<sub>2</sub> a) CH<sub>3</sub>(CH<sub>2</sub>)<sub>2</sub>CH<sub>2</sub>OH d)  $(C_2H_5)_2NH$ 112. Among the following isomeric amines, the amine having highest boiling point is b) tert-butylamine a) ethyldimethylamine d) n-butylamine 113. Identify the product obtained when benzamide is treated with bromine and aqueous c) Benzyl alcohol d) Bromobenzene sodium hydroxide. b) Phenol a) Aniline 114. Identify the product 'A' in the following reaction.

Aniline  $\xrightarrow{(CH_3CO)_2O}$  A

a) Acentanilide

() Benzenediazonium chloride

b) Sulphanilic acid

d) p-nitroacentanilide

	1 SAUCE CHEL
ic the product formed when aniling	MHT-CE1 e is treated with NaNO <sub>2</sub> + HCI previous to
What is who when of	with NanO <sub>2</sub> + HC1 previous
Waternol	b) Benzene
phenol  Benzene diazonium chloride  Benzene of the following is an aromati	d) Phenol + N <sub>2</sub> ↑
d bone of the following is an aromati	c amine ?
b) C <sub>E</sub> H <sub>0</sub> – NH <sub>2</sub>	A NH A NH
	c) d) d) ene diazonium chloride reacts with ethanol? c) Phenol d) Benzyl alcohol
the product formed when benze	ene diazonium chloride reacts with ethanol ?
Rehyl benzene b) Benzene	c) Phenol d) Benzyl alcohol
a) ich among the following compounds	s is NOT prepared by Sandmeyer's reaction ?
a) Cl b) CN	c) Phenol d) Benzyl alcohol s is NOT prepared by Sandmeyer's reaction? c) I d) Br
IMHT-0	CET 2023]
IMHT-C Identify the product 'B' in the following  KCN A Na/C2H5OH B	g sequence of reactions.
Identity the product 2 Marchael R	
$\begin{array}{c} \text{Identity dist} \\ \text{CH}_3 \text{Br} \xrightarrow{\text{KCN}} \text{A} \xrightarrow{\text{Na/C}_2 \text{H}_5 \text{OH}} \text{B} \end{array}$	c) Methylamine d) Ethyl cyanide
	c) Methylanine c)
Vientify product bill the rolls	
Aniline $\xrightarrow{\text{NaNO}_2 + \text{HCl}}$ A $\xrightarrow{\text{H}_2\text{O}}$ B + N	$I_2 \uparrow$
Aniline 273K	b) Benzyl alcohol
a) Chlorobenzene	
c) Benzenediazoniumchloride	poiling points of alcohols, amines and carboxy
Select the correct increasing order of	d) Phenol poiling points of alcohols, amines and carboxylic the following.
Select the correct increasing order of acids of comparable molar mass from	n the following.  cids b) Amines < Carboxylic acids < Alcohols  cids d) Carboxylic acids < Alcohols < Amines
a) Alcohols < Amines < Carboxylic a	cids b) Amines < Carboxylic acids < Alcohols < Amines reaciton.
w Hanking substrate A III the love	
A+AgOH $\xrightarrow{i) \text{moist Ag}_2O}$ CH <sub>3</sub> CH <sub>2</sub> N	$(CH_3)_2 + CH_2 = CH_2$
A+AgOH ii) \( \Delta \)	. 1
D' the dimethyl ammonium hal	iae
d) Ethyldimethyl ammonium hyd d) Ethyltrimethyl ammonium hyd	roxide
d) Ethyltrimethyl ammonium hyd 177. Which of the following reaction is I	Hofmann's eliminated R-X excess RANX
Which of the following PNHa	b) $R - NH_2 \xrightarrow{R-X \text{ excess}} R_4 NX$
a) $R CONH_2 \xrightarrow{Br_2, KOH(aq)} RNH_2$	$R_2N$ d) RCN $\xrightarrow{Na/C_2H_5OH}$ RCH <sub>2</sub> NH <sub>2</sub>
AgaO(moist) Alliane +	$R_3N$ d) RCN $\xrightarrow{Na_1 \times 2^2 \times 3}$ $\xrightarrow{Na_1 \times 2^2 \times 3}$
c) $R_4 - NX \xrightarrow{Ag_2O(moist)} Alkene +$	MAIN.
	on: A LiAIH4 Ethanamine
178. Identify 'A' in the following reaction	$CHCONH_2$ d) $CH_3NO_2$
b) CH <sub>3</sub> CON	$H_2$

b) CH<sub>3</sub>CONH<sub>2</sub> c) C<sub>2</sub>H<sub>5</sub>CONH<sub>2</sub>

a) C<sub>2</sub>H<sub>5</sub>CN

c) butanamide