NEET : CHAPTER WISE TEST-10						
SUBJE	ECT :- CHEMISTRY	DATE				
CLASS :- 12 th			NAME			
CHAP	IER :- AMINE		SECTION	••••		
1	(SECI	on-A)	Alkyl bolido roasta with AgCN to fo			
1.		ο.	mainly :)		
			(A) Alcohol (B) Cyanide			
			(C) Isocyanide (D) Both B & C			
	CH_3 (A) 1° and 3° amine	9	Amide on heating with P_2O_c gives –			
	(B) Only primary amine	•	(A) Alkane nitrile (B) Alkyl halide			
	(C) 2° and 3° amine		(C) Amine (D) None			
	(D) Only secondary amine	10	Grignard reagent reacts with evanor	non		
2.	Mendius reaction involves the reduction of -	10.	chloride to form –	Jen		
	(A) Cyanoalkanes		(A) Alkane nitrile (B) Alkyl halide			
	(B) Alkyl isocyanides		(C) Amine (D) None			
	(C) Oximes (D) Nitroalkanes	11	Ethyl iodide on reaction with potassi	um		
			nitrite gives –	um		
3.	A reaction used in descending a		(A) Ethyl nitrite (B) Nitroethane			
	homologous series would be -		(C) Amine (D) Acid			
	(A) $RCONH_2 + BF_2 + KOH$	12.	Which of the following is optically act	ive		
	(C) $RNH_{a} + CHCl_{a} + KOH$		amine ?			
	(D) None of the above		(A) CH_3NH_2			
	(_)		(B) CH_3NHCH_3 (C) CH CH CH $N = C$ H			
4						
4.	$\bigcup_{CO} \xrightarrow{NH} \longrightarrow A \longrightarrow B$		CH ₃			
	$\xrightarrow{\text{HOH}} C + D$, C and D in the sequence		(D) Secondary butylamine			
	are-	13.	Which of the following would under	rao		
	(A) Benzoic acid + aniline		Hoffmann bromamide reaction to fo	orm		
	(B) Phthalic acid + methylamine		primary amine ?			
	(C) Phthalic acid + aniline		(A) $RCONHCH_3$ (B) $RCOONH_4$			
	(D) Benzoic acid + ethylamine		(C) RCONH_2 (D) RCONHOH			
_		14	Which of the following will give prime	201		
5.	Reaction for the preparation of 1° amine	14.	amine on hydrolysis ?	ary		
	 (A) Hoffmann carbylamine reaction (B) Hoffmann mustard oil reaction (C) Hoffmann bromamide reaction 		(A) Nitroparaffins			
			(B) Alkyl cyanide			
			(C) Oxime			
	(D) Liebermann nitroso reaction		(D) Alkyl isocyanide			
		15	Which of the following is obtained	by		
6.	On reduction of Schiff's base we get-	15.	reducing methyl cyanide with Na	т		
	(A) Primary amine		C ₂ H₅OH ?	-		
	(B) Secondary annue		(A) Methyl alcohol (B) Acetic acid			
	(D) Anilide		(C) Ethylamine (D) Methane			
7.	In Hoffmann degradation of amide the	16.	Ethylamine can be prepared by the	all		
	correct order of reagent is-		except			
	(A) Br ₂ , KOH, H ₂ O		(A) Curtius reaction			
	(B) KOH, Br ₂ , H ₂ O		(B) Hoffmann reaction			
	(C) H ₂ O, KOH, Br ₂		(C) Mendius reaction			
	(D) None of the these		(D) Reduction of formaldoxime			

17.	Amines are basic in nature becaus (A) They produce OH ⁻ ions when with water (B) They have replaceable H ator	ie- treated ms on N	25.	Wi sul (A)
	atoms (C) They have lone pair of electr	on on N		(B) (C) (D)
	(D) None of these			(-)
18.	Which statement is not correct ? (A) Methylamine is more basic that (B) Amines from hydrogen bonds (C) Ethylamine has higher boilin than propane	n NH₃ g points	26. 27.	Hy (A) (C) Im
	methylamine			(C)
19.	Which of the following diazoniun relatively stable of 0-5°C ? (A) $[CH_3-N\equiv N]^+ CI^-$ (B) $[CH_3-C(CH_3)-N\equiv N]^+CI^-$ (C) $[C_6H_5-N\equiv N]^+CI^-$ (D) $[(CH_3)_3C-N\equiv N]^+CI^-$	n salt is	28.	A i in t (A) (B) (C)
20.	Which of the following compound	gives the	20	ть
	smell of mustard oil ? (A) Alkyl isocyanate (B) Allyl isothiocyanate (C) Alkyl isocyanide (D) Alkyl isonitrile		29.	(A) (A) (B)
21	Suitable explanation for the order	of basic		(D
	character (CH ₃) ₃ N < (CH ₃) ₂ NH is- (A) Steric hindrance by bulky meth (B) Higher volatility of 3° amine	yl group	30.	Th be (A)
	 (C) Decreased capacity for formation with H₂O (D) Decreased electron density at 	H-bond N atom	31.	A
22.	Butylamine reacts with sodium ni aqueous solution of a strong acid t (A) Two position isomers of C ₄ H unbranched carbon chain (B) 1-Butanol	trite and o form - ₈ having		the (A) (B) (C) (D)
	(C) 2-Butanol (D) All compounds given in A , B a	nd C	32.	WI no ⁻ pri
23.	Propylamine reacts with nitrous from a relatively stable cation viz (A) Propyl diazonium ion (B) Isopropyl carbocation	acid to		(A) (B) (C) (D)
	(C) Isopropyl diazonium ion (D) Propyl carbonium ion		33.	C⊦ 3H
24.	Which of the following can be determined carbylamine reaction ?(A) Urea(B) CH_3CG (C) $C_2H_5NH_2$ (D) All the	ected by DNH ₂ above		(A) (B) (C) (D)

25.	 Which of the following does not form a sulphur compound with primary amine ? (A) Hinsberg's reagent (B) Sulphuric acid (C) Schotten-Baumann reaction (D) Mustard oil reaction 		
26.	Hydrolysis of alkyl isocyanide yields – (A) Primary amine (B) Tertiary amine (C) Alcohol (D) Aldehyde		
27.	Imino group is present in -(A) CH_3NH_2 (B) $CH_3NHCOCH_2$ (C) $(CH_3)_2 NH$ (D) $(CH_3)_3N$		
28.	A mixture of 1°, 2° and 3° amine is formed in the reaction- (A) 1° Amide + caustic potash + bromine (B) Methyl halide and ammonia (C) Cyclic imide + H_3O^+ (D) Alkyl isocyanide + H_2		
29.	The presence of primary amines can be confirmed by- (A) Reaction with HNO ₂ (B) Reaction with CHCl ₃ and alc. KOH (C) Reaction with Grignard reagent (D) Reaction with acetyl chloride		

30. The compound obtained by the reaction between primary amine and aldehyde is-(A) An amide (B) Imine (C) Nitrite (D) Nitro

- A primary nitroalkane is treated with nitrous acid, which of the following will be the main product :
 (A) Pseudonitrol
 - (B) Nitrolic acid
 - (C) A primary amine
 - (D) A primary alcohol
- Which of the following method is generally not employed for the separation of primary, scondary and tertiary amines ?
 (A) Fractional distillation
 - (B) Hinsberg's method
 - (C) Hoffmann's method
 - D) Filteration

- 34. 43. Which of the following amine does not react with Hinsberg reagent ? (A) Neopentyl amine (B) Isopropyl amine (C) Triethylamine (D) Ethyl methylamine 44. 35. Which one of following reaction is Schotten-Baumann reaction ? (A) Acetylation of RNH₂ (B) Acylation of RNH₂ (C) Alkylation of RNH₂ (D) Benzoylation RNH₂ 45. (SECTION-B) 36. Ethylamine on oxidation with KMnO₄ gives (A) Acetaldehyde (B) Ethylamine oxide (C) Ethanol (D) Acetamide 37. Methylamine on treatment with chloroform and ethanolic caustic alkali gives foul smelling compound, the compound is (A) CH₃NCO (B) CH₃CNO (C) CH₃CN (D) CH₃NC 38. Weakest amine is (A) Aniline (B) Methylamine (C) Dimethylamine (D) Ethylamine 39. If primary amines are treated with ketones the product is (A) Urea (B) Guanidine (C) Amide (D) Schiff's base 46. 40. Lowest boiling point will be of the compound (A) Ethylamine (B) Ethyl methylamine (C) 1-Propanamine (D) N, N–Dimethylmethanamine 47. 41. Which of the following reagent gives nitrogen gas when treated with primary amine ? (A) Nitrous acid (B) Nitric acid (C) Nitrosyl chloride (D) A and C 48. 42. Chloroplatinic acid is a :-(A) Dibasic acid (B) Monobasic acid
 - (C) Tribasic acid
 - (D) None of these

- False statement regarding amines is :(A) They give mustard oil reaction
 (B) They give carbylamine reaction
 (C) They form salt with acids
 (D) They give alcohol on hydrolysis
- Primary amines on heating with CS2 followed by excess of mercuric chloride yields isothiocyanate. The reaction is called :-(A) Hoffmann mustard oil reaction (B) Perkin reaction (C) Fries reaction (D) Diels–alder reaction
- Match List I with List II and select the correct answer using the codes given below :-List I [Reagent] A. Ammonical AgNO₃ B. HIO₄ C. Alkaline KMnO₄ D. Chloroform + NaOH List II [Used as test reagent for] a. Primary amine b. Aldehyde c. Vicinal-OH groups d. Double bond Codes : А В С D (A) d h С а
 - (A)
 b
 c
 a
 d

 (B)
 d
 b
 a
 c

 (C)
 b
 c
 d
 a

 (D)
 d
 c
 b
 a
- **46.** Reaction of nitrobenzene with sodium arsenite gives the product :-
 - (A) Azoxybenzene
 - (B) Azobenzene
 - (C) Hydrazobenzene
 - (D) Nitrosobenzene
- 47. Which product cannot be isolated if the nitrobenzene is subjected to reduction in alkaline medium ?(A) Azoxybenzene
 - (B) Hydrazobenzene
 - (C) Azobenzene
 - (D) Nitrosobenzene
- Reduction of nitrobenzene with zinc and methanolic alkali gives mainly : (A) Aniline
 - (B) p-Aminophenol
 - (C) Azoxybenzene
 - (D) Azobenzene

49. Assertion : Amines are basic in nature. Reason : Presence of lone pair of electron on nitrogen atom.

> (A) If both assertion and reason are true and the reason is the correct explanation of the assertion.

> (B) If both assertion and reason are true but reason is not the correct explanation of the assertion.

- (C) If assertion is true but reason is false.
- (D) If assertion is false but reason is true.

50. Assertion : Nitrobenzene does not undergo Friedel Craft alkylation. **Reason :** Nitrobenzene is used as solvent in laboratory and industry.

(A) If both assertion and reason are true and the reason is the correct explanation of the assertion.

(B) If both assertion and reason are true but reason is not the correct explanation of the assertion.

(C) If assertion is true but reason is false.

(D) If assertion is false but reason is true.

