



CHEMISTRY

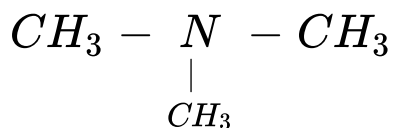
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CHEMISTRY (KANNADA ENGLISH)

**ORGANIC COMPOUNDS CONTAINING
NITROGEN**

**Amines Methods Of Perparation Physical And
Chemical Properties Uses Very Short Answer Type
Questions**

1. Give the IUPAC name of



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2. Mention the hybridised state of carbonyl carbon.



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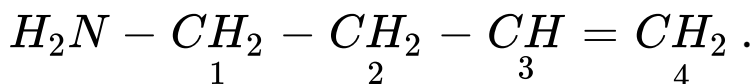
3. Arrange the following in the decreasing order of their basic strength in aqueous solution :

CH_3NH_2 , $(CH_3)NH$, $(CH_3)_3N$ and NH_3



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4. Give the IUPAC name of



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Amines Methods Of Perparation Physical And
Chemical Properties Uses Short Answer Type
Questions

1. How is a peptide bond formed between two amino acids ?



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2. Describe the structure of amines



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3. Bond angle in $(CH_3)_3 N$ is little more than the bond angle in NH_3 . Explain.



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4. Discuss the classification of amines.



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**Cyanides Isocyanides And Diazonium Salts
Preparation Physical And Chemical Properties Uses
Very Short Answer Type Questions**

1. Electrophilic substitution in case of aromatic amines takes place more readily than benzene.

Why?



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2. Direct nitration of aniline is not carried out.

Explain why ?



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3. Why do amines behave as nucleophiles ?



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4. Give one chemical test to distinguish between

$CH_3CH_2NH_2$ and $C_6H_5NH_2$.



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Cyanides Isocyanides And Diazonium Salts
Preparation Physical And Chemical Properties Uses
Short Answer Type Questions

1. Which is more basic among aqueous solutions of aniline and ammonia ? Give one reason?



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2. How do you convert ethane nitrite to ethanamine ? Give equation.



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3. Explain the mechanism of nitration of benzene .



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4. What is zwitter ion ? Write zwitter ion structure of Alanine.



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5. What happens when aniline is heated with chloroform and alcoholic potash ? write equation.

OR

Explain carbylamine reaction for a primary amine.

Write general equation



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6. Explain the following ructions :

(a) Gabriel Phthalimide reaction

(b) Coupling reaction

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7. Give chemical tests to distinguish between the following pairs of compounds :

(a) Aniline and Ethylamine

(b) Ethylamine and Dimethylamine

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8. Give reasons :

(i) Aniline is a weaker base than cyclohexyl amine.

(ii) It is difficult to prepare pure amines by a ammonolysis of alkyl halides.



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9. Account for the following :

(i) Diazonium salts of aromatic amines are more stable than those of aliphatic amines.

(ii) Amines are more basic than alcohols of comparable molecular masses.



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10. Distinguish between :

(i) Methyl amine and dimethyl amine,

(ii) Aniline and N-methyl aniline.



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11. Describe the following giving the relevant chemical equation in each case :

(i) Carbylamine reaction

(ii) Hoffmann's bromamide reaction.



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12. Bring about the following conversions :

Nitrobenzene to benzoic acid



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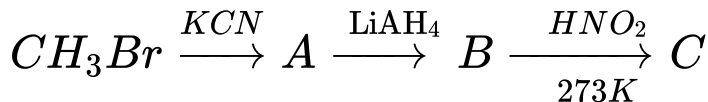
13. Bring about the following conversions :

Benzyl chloride to 2-phenyl ethanamine



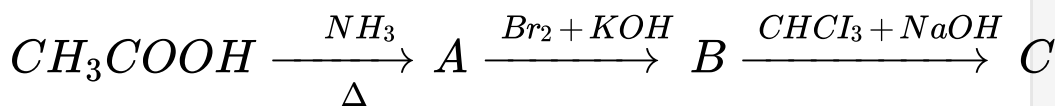
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14. Give the structure of A, B and C In the following reactions :



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15. Give the structure of A, B and C In the following reactions :



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16. How will you convert the following :

(i) Nitrobenzene into aniline

(ii) Ethanoic acid into methanamine

(iii) Aniline into N-phenylethanamide (Write the chemical equations involved).



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17. Explain why an alkyl amine is more basic than ammonia.



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18. How would you convert :

(i) Aniline to nitrobenzene ,

(ii) Aniline to iodobenzene ?



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Cyanides Isocyanides And Diazonium Salts Preparation Physical And Chemical Properties Uses Long Answer Type Questions I

1. Why is ethyl amine a stronger base than aniline ?



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2. How is alkylation of amines carried ? Give example.



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Cyanides Isocyanides And Diazonium Salts Preparation Physical And Chemical Properties Uses Long Answer Type Questions Ii

1. (a) In the preparation of p - bromo acetanilide from acetanilide.

(i) Name the reagents used .

(ii) Write the equation for the reaction involved .

(iii) What is the colour of the product obtained .



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2. Name the organic compound obtained when aniline is added to dilute HCl at $0^{\circ}C$. Give the equation for the reaction .



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3. An organic compound (A) on treatment with acetic acid in the presence of sulphuric acid produces an ester (B). (A) on mild oxidation gives (C). (C) with 50% KOH followed by acidification with dilute HCl generates (A) and (D). (D) with PCl_5 followed by reaction with ammonia gives

(E). (E) on dehydration produces hydrocyanic acid.

Identify the compounds. A, B, C, D, and E.



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