

BRAIN INTERNATIONAL SCHOOL

CHEMISTRY ASSIGNMENT- 1 Class: XII Nov.'24

General Instructions:

- (i) There are five questions
- (ii) Each question carries 2 marks.

Answer the following questions:

1. Explain the following name reactions:

- (a) Carbylamine reaction (b) Coupling reaction

2. Give reason for the following:

- (a) Three degree amines are more basic than one degree in gas state.
- (b) Aniline shows more p_{Kb} than ethanamine

3. Convert the following:

- (a) Aniline into toluene
- (b) Ethan amine into ethanol

4. (a) convert benzylchloride into 2-phenylethanamine

- (b) Aniline into phenol

5. Why primary amines show higher boiling point than tertiary.

6. Write the distinguish test between the following pair of compounds:

- (a) Aniline and Benzyl amine
- (b) Primary amine and secondary amines

7. Prepare p-Bromoaniline from aniline.

8. Give reason:

(a). NH₂ is o&p directing group but on nitration of aniline meta derivatives also form in large quantity.

(b). Diazonium salt of aromatic amine is more than diazonium salt of aliphatic amine.