

Study Material: 3

Name- Sayanwita Panja

Discipline- B.Sc (H)

Subject- Chemistry

Semester- IV

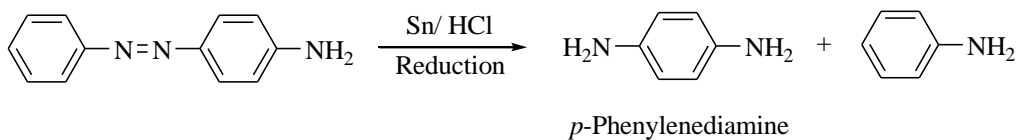
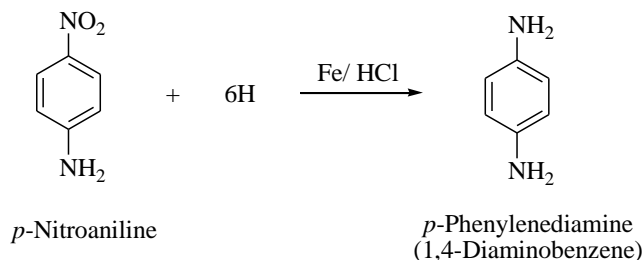
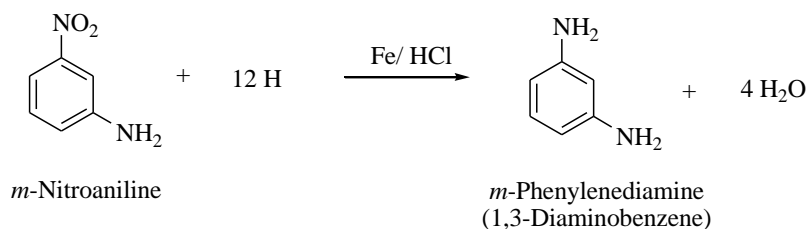
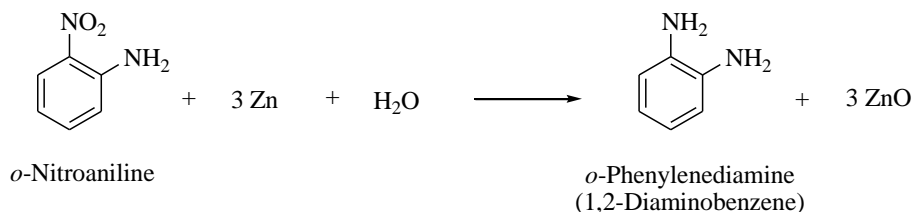
Course Code- CC10

Topic- Organic Chemistry, Nitrogen Compounds

ORGANIC COMPOUNDS OF NITROGENS:

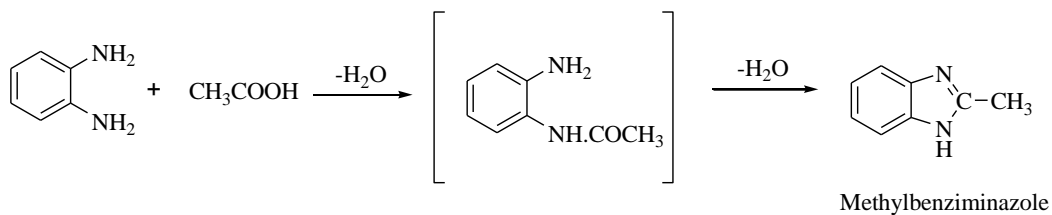
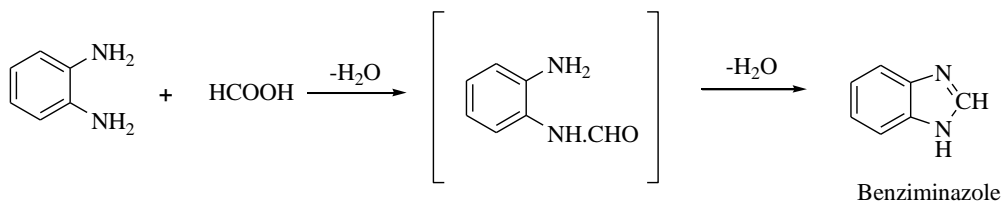
:Phenylenediamine:

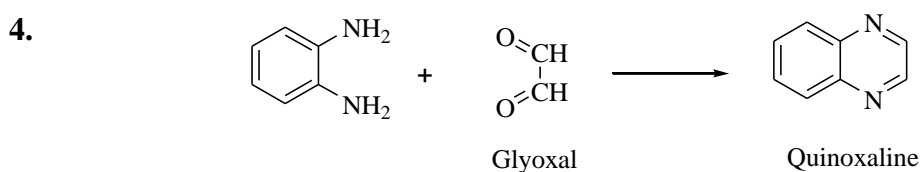
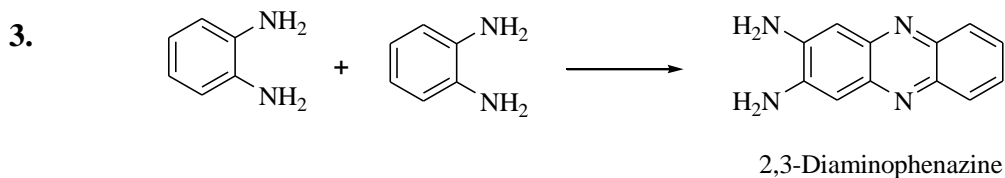
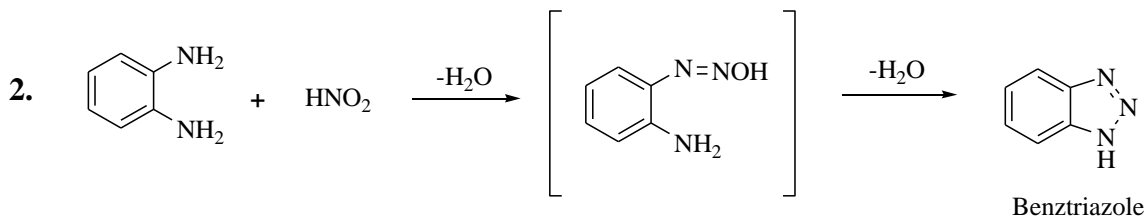
• Preparation:



• Reaction of *o*-Phenylenediamine:

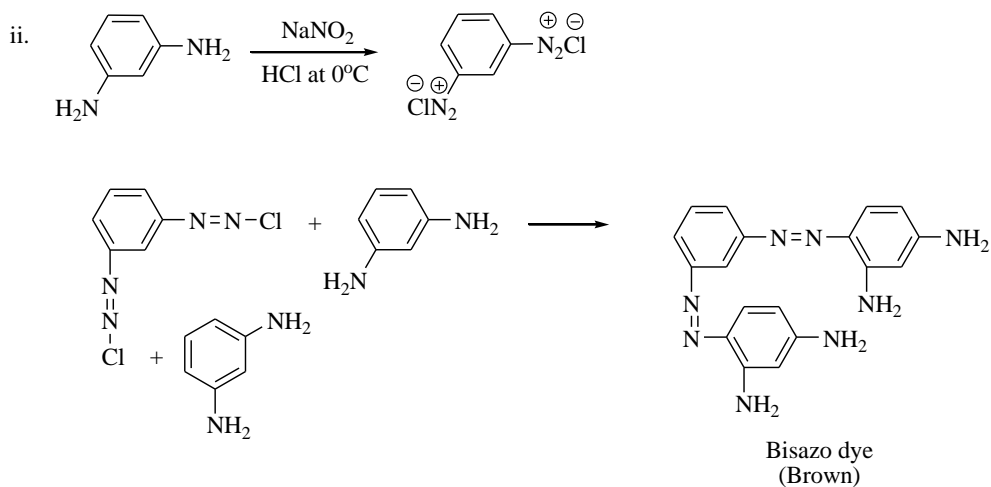
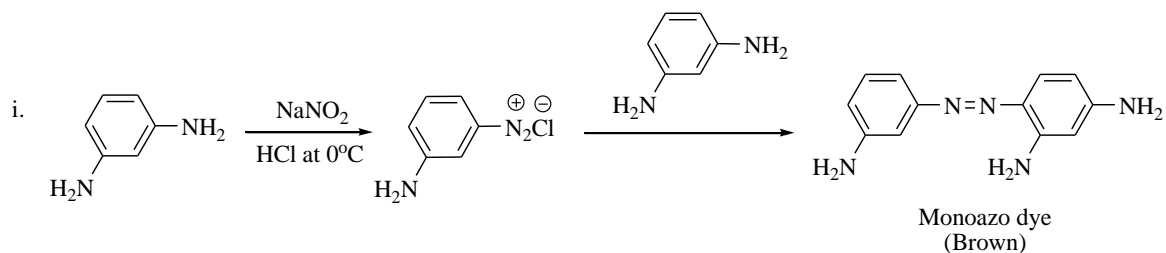
1.





• **Reaction of *m*-Phenylenediamine:**

When *m*-phenylenediamine is treated with nitrous acid it forms a brown dye called ‘**Bismark brown**’ which is a mixture of a monoazo and a bisazo dyes. The dye formation is the basis of detection and estimation of nitrites in water. The dye ‘**Bismark brown**’ is used in the preparation of dyes, boot polish and wood staining.



• **Reaction of *p*-Phenylenediamine:**

