**Scheme 1**

1. Formation of and



1. Formation of Phenol, , ,







1. Conversion of azo bond to , - N=O group and



1. Conversion of –N=N- to phenolic group



1. Formation of phenols and amines



**Scheme 1.** Mechanism of formation of different ions and products from azo compounds

**Scheme 2**



**Scheme 2.** Mechanism of degradation of mixture of dyes (AB+PX).