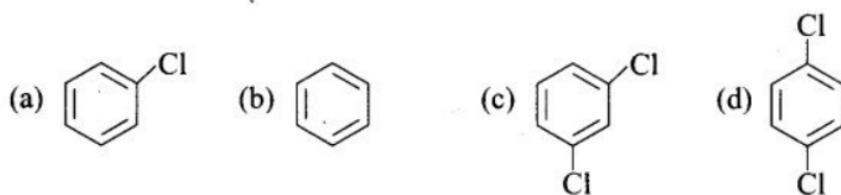
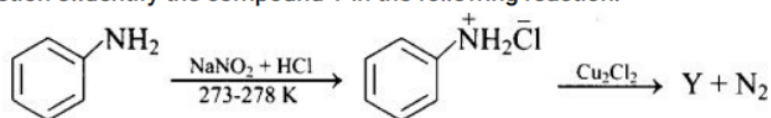


Question 3. Identify the compound Y in the following reaction:



Solution: (a) When a primary aromatic amine, dissolved or suspended in cold aqueous mineral acid and treated with sodium nitrite, a diazonium salt is formed. When this freshly prepared diazonium salt is mixed with cuprous chloride, diazonium group is replaced by -Cl. Then chlorobenzene is formed which is Y in this reaction.

