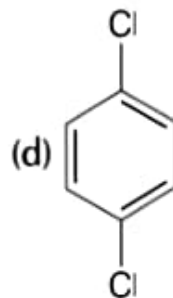
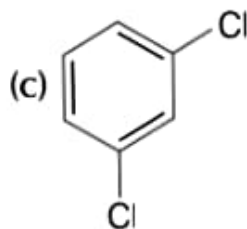
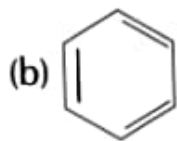
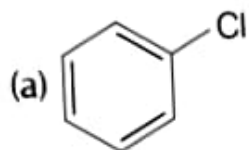
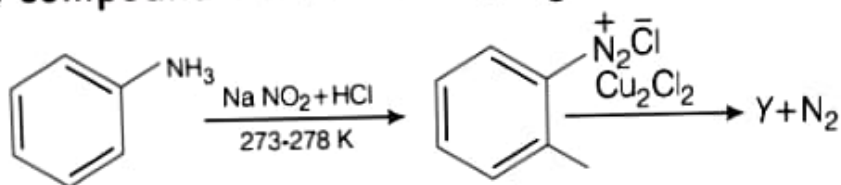
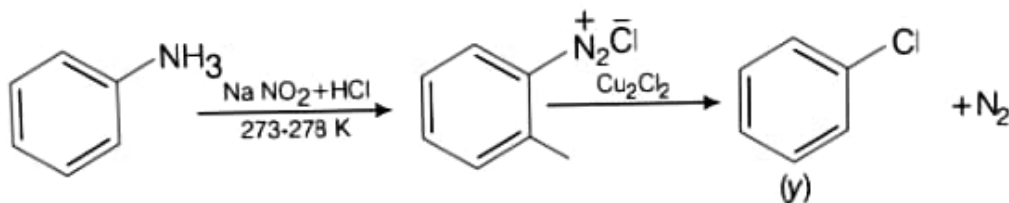


Identify the compound Y in the following reaction.



(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, then diazonium group is replaced by — Cl.

Then chlorobenzene is formed which is y in this reaction



Hence, option (a) is correct.