

SUBJECT - CHEMISTRY

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CLASS - B.Sc (Sub/Gen) PART-11

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GROUP - C

TOPIC - diazonium Salts.

Dr Hari Mohan pal Singh

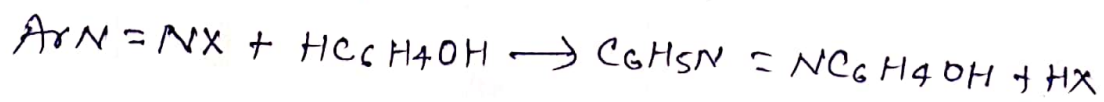
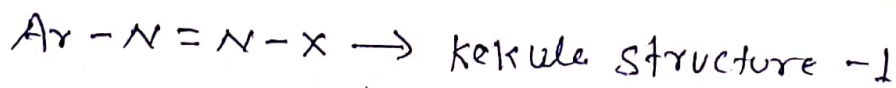
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Q Discuss the Constitution of diazonium Salt.  
Ans structure of diazonium Salts.

(1) from the elemental analysis and molecular weight determination the molecular formula of a diazonium Salt comes  $C_6H_5N_2X$  when  $X =$  an acid radical.

2 Kekule (1866) suggested structure I as he believed that only one of the two N-atom is directly linked to the nucleus for its various reactions  $-N_2X$  is replaced by a univalent group. The formation of azodye by the coupling of the diazonium Salt with phenol also supports Kekule structure.



3 The diazonium Salt were assigned structure -II by Blomstrand in 1869. He argued that since diazonium Salt resemble ammonium Salt, they must contain one pentavalent nitrogen.

