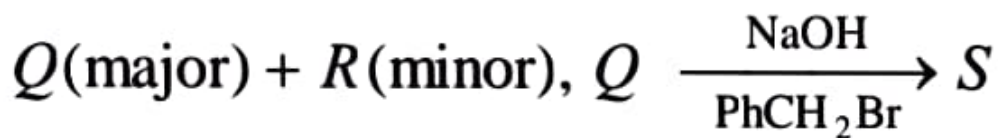
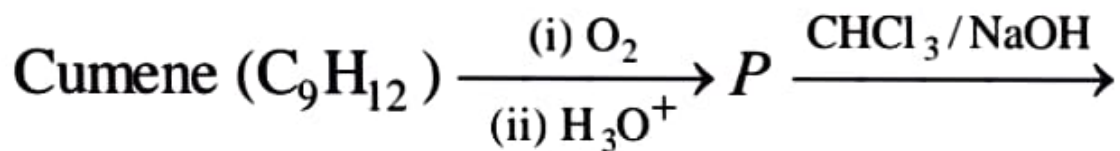


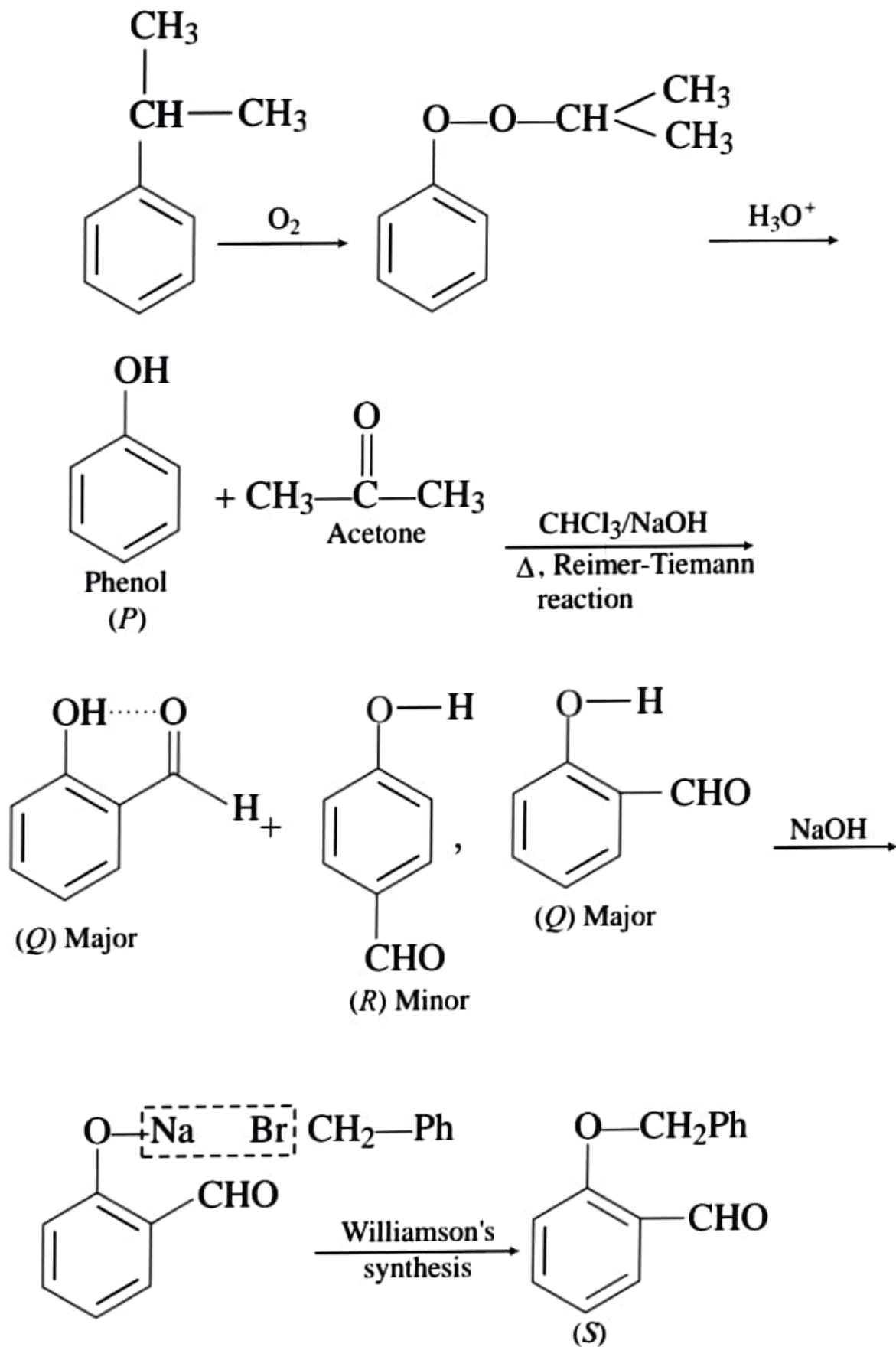
The correct statement(s) about the following reaction sequence is (are)



(2016 Adv.)

- (a) *R* is steam volatile
- (b) *Q* gives dark violet colouration with 1% aqueous FeCl_3 solution
- (c) *S* gives yellow precipitate with 2, 4-dinitrophenylhydrazine
- (d) *S* gives dark violet colouration with 1% aqueous FeCl_3 solution

32.



- (a) *R* is not steam volatile, but *Q* is steam volatile thus, incorrect.
- (b) *Q* has enolic group thus, gives violet colour with 1% aqueous FeCl_3 solution thus, correct.

(c) *S* has carbonyl group hence, gives yellow precipitate with 2, 4-DNP thus, correct.

(d) *S* does not give colour with FeCl_3 thus, incorrect.