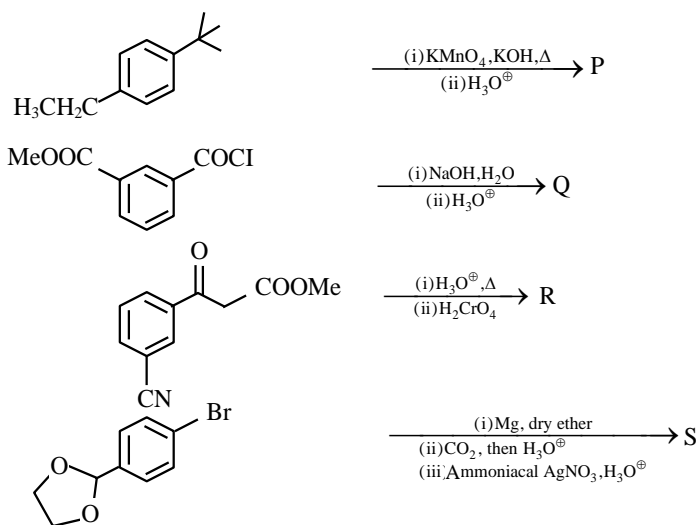


ORGANIC CHEMISTRY

POLYMER

1. In the following reactions, **P**, **Q**, **R** and **S** are the major products. [JEE(Advanced) 2023]



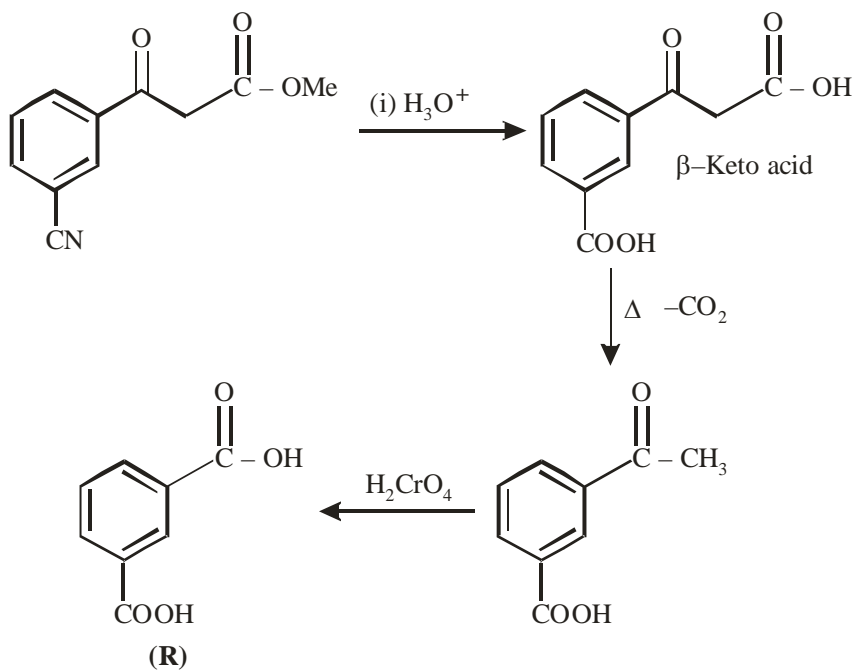
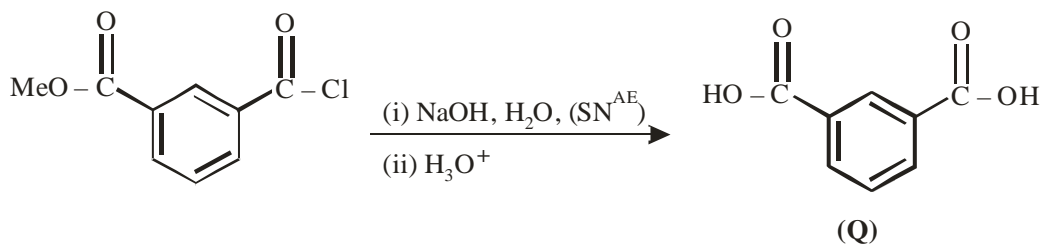
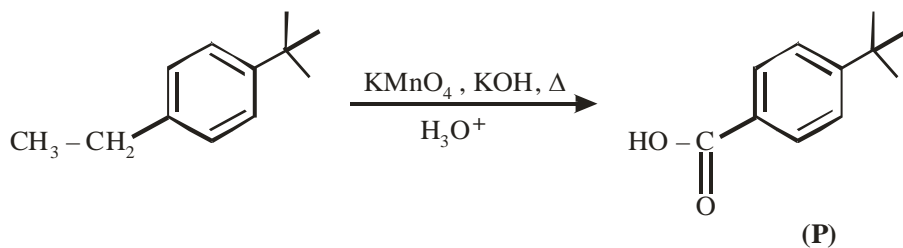
The correct statement (s) about **P**, **Q**, **R**, and **S** is (are)

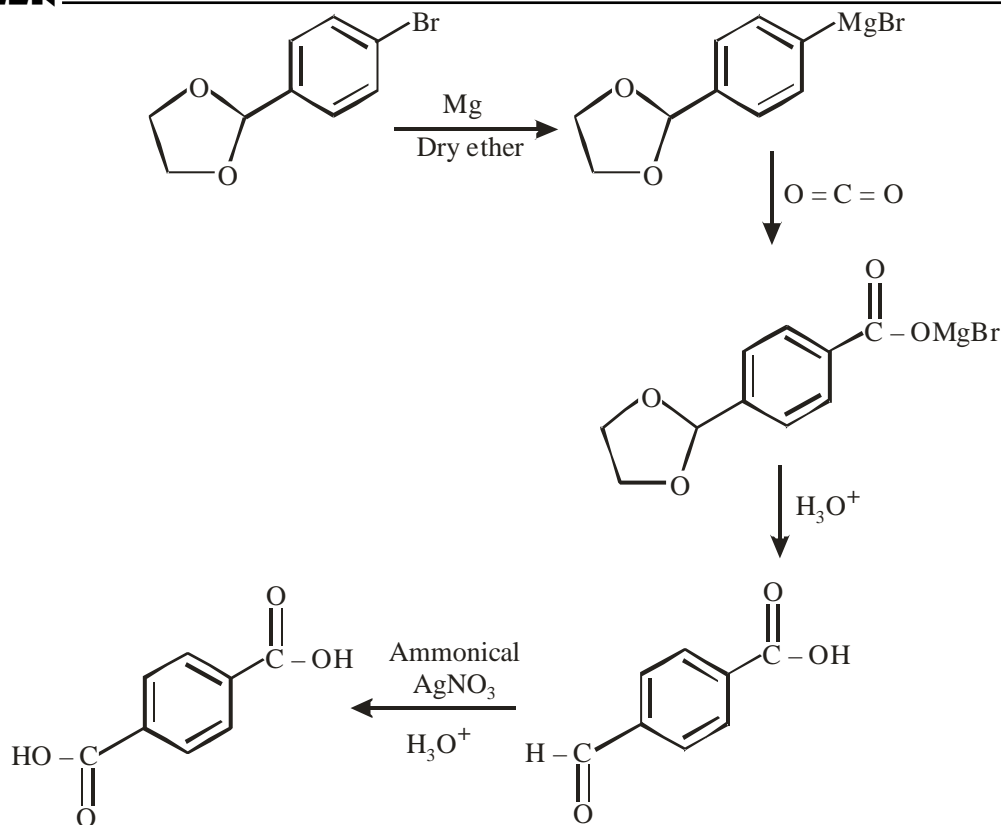
- (A) **P** and **Q** are monomers of polymers dacron and glyptal, respectively.
- (B) **P**, **Q**, and **R** are dicarboxylic acids.
- (C) Compounds **Q** and **R** are the same.
- (D) **R** does **not** undergo aldol condensation and **S** does **not** undergo Cannizzaro reaction.
2. Among the following, the correct statement(s) about polymers is(are) [JEE(Advanced) 2022]
- (A) The polymerization of chloroprene gives natural rubber.
- (B) Teflon is prepared from tetrafluoroethene by heating it with persulphate catalyst at high pressures.
- (C) PVC are thermoplastic polymers.
- (D) Ethene at 350-570 K temperature and 1000-2000 atm pressure in the presence of a peroxide initiator yields high density polythene.
3. On complete hydrogenation, natural rubber produces [JEE(Advanced) 2016]
- (A) ethylene-propylene copolymer
- (B) vulcanised rubber
- (C) polypropylene
- (D) polybutylene

SOLUTIONS

1. Ans. (C, D)

Sol.





2. Ans. (B, C)

Sol. (a) The polymerisation of neoprene gives natural rubber.

(b) is correct statement

(c) is correct statement

(d) Ethene at 350-570 K temperature and 1000-2000 atm pressure in the presence of a peroxide initiator yields low density polythene.

3. Ans. (A)

