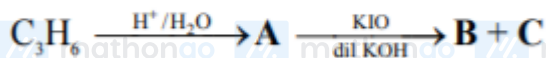


Q1 2021 (01 Sep Shift 2)

In the following sequence of reactions,



The compounds **B** and **C** respectively are :

- (1) Cl_3COOK , HCOOH
- (2) Cl_3COOK , CH_3I
- (3) CH_3I , HCOOK
- (4) CHI_3 , CH_3COOK

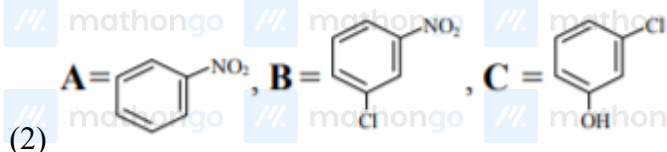
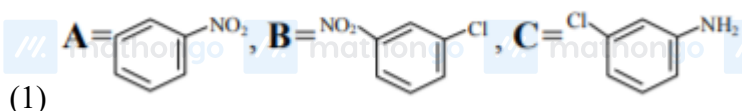
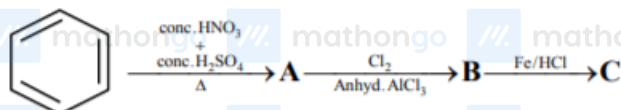
Q2 2021 (01 Sep Shift 2)

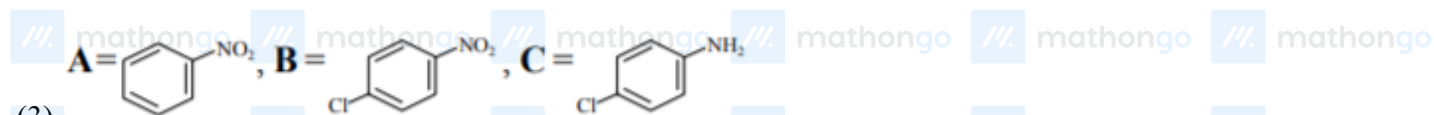
The stereoisomers that are formed by electrophilic addition of bromine to trans-but-2-ene is/are :

- (1) 2 enantiomers and 2 mesomers
- (2) 2 identical mesomers
- (3) 2 enantiomers
- (4) 1 racemic and 2 enantiomers

Q3 2021 (31 Aug Shift 2)

Identify correct **A**, **B** and **C** in the reaction sequence given below :





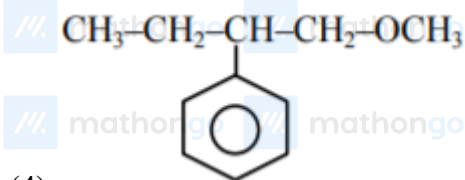
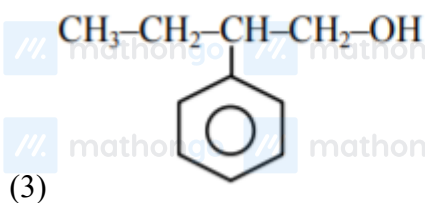
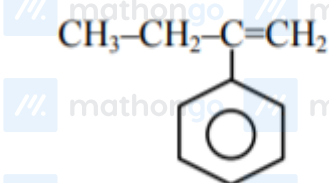
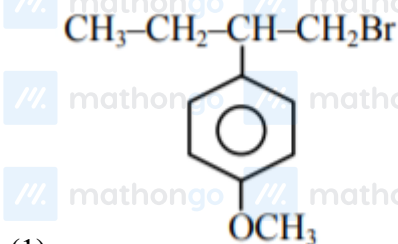
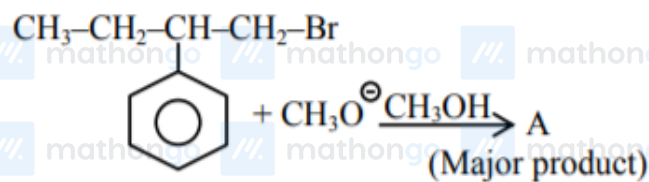
Q4 2021 (31 Aug Shift 2)

For the following :

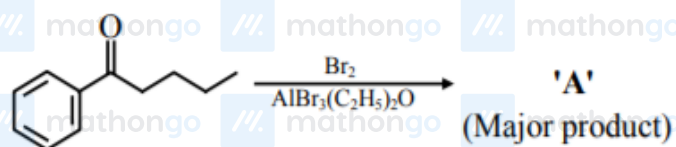


Q5 2021 (27 Aug Shift 2)

The major product (A) formed in the reaction given below is :



Q6 2021 (26 Aug Shift 2)



Consider the given reaction, the product A is :



Q7 2021 (26 Aug Shift 1)

Excess of isobutane on reaction with Br_2 in presence of light at 125°C gives which one of the following, as the major product?





Q8 2021 (26 Aug Shift 1)

Among the following compounds I – IV, which one forms a yellow precipitate on reacting sequentially with (i) NaOH (ii) dil. HNO₃ (iii) AgNO₃ ?



(1) II

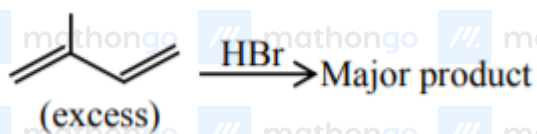
(2) IV

(3) I

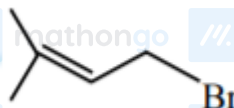
(4) III

Q9 2021 (26 Aug Shift 1)

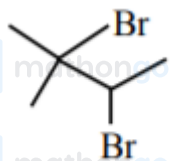
The major product formed in the following reaction is :



(1)



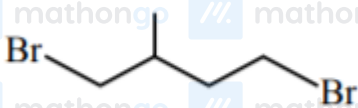
(2)



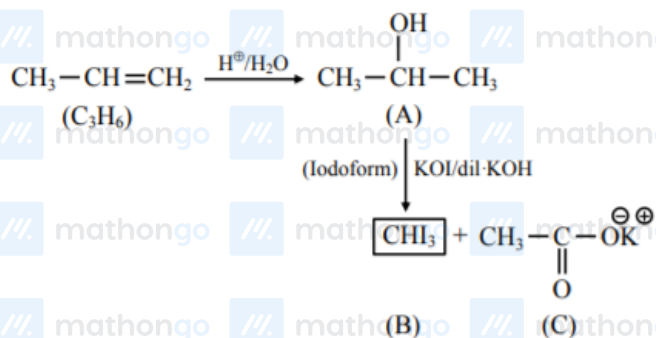
(3)



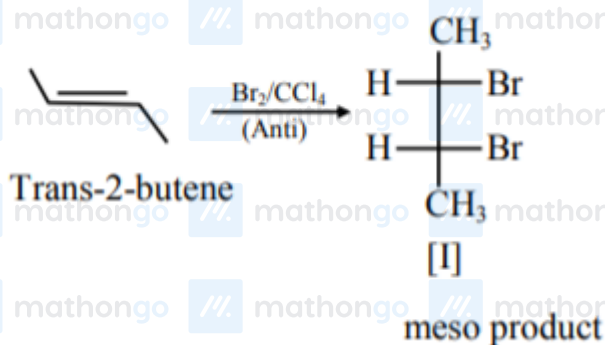
(4)



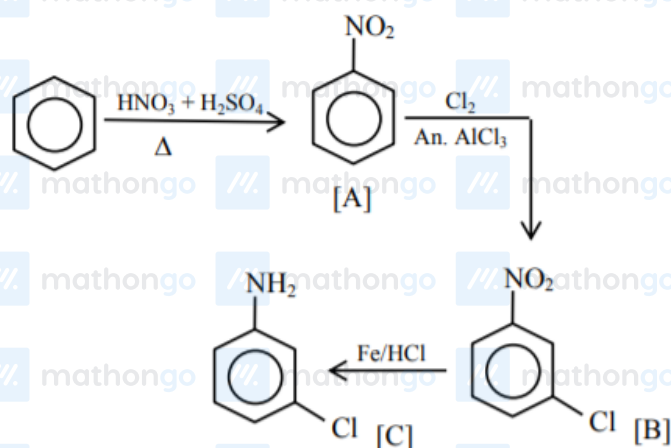
Q1 (4)



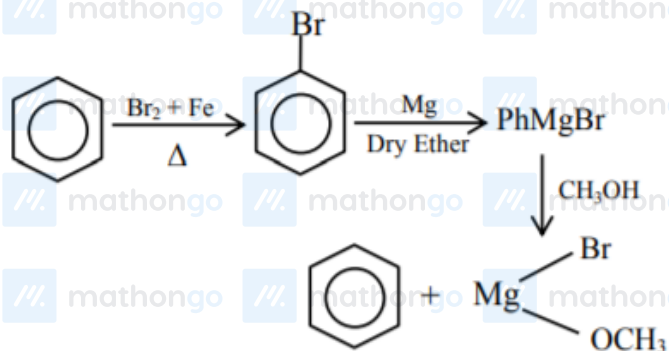
Q2 (2)



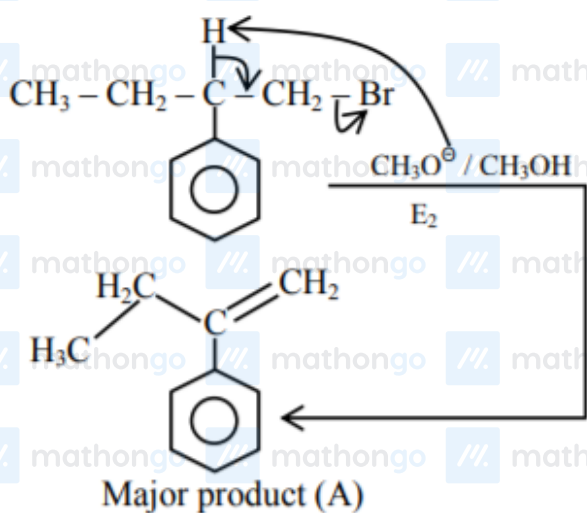
Q3 (1)



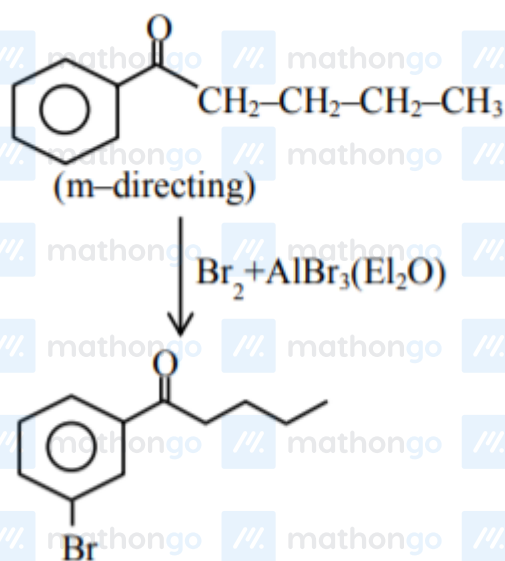
Q4 (2)



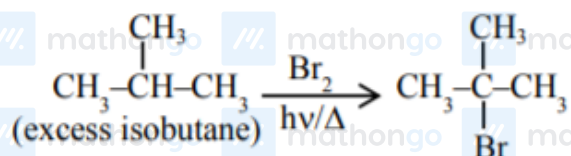
Q5 (2)



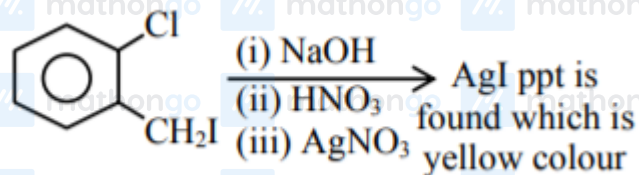
Q6 (3)



Q7 (4)



Q8 (2)



Other compounds halide can't be removed because corresponding C⁺ is highly unstable.

Q9 (1)

