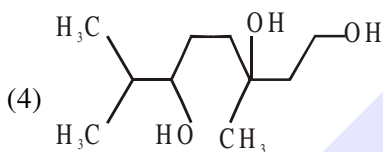
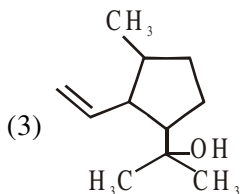
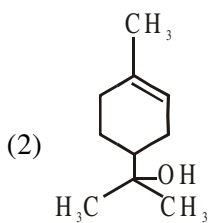
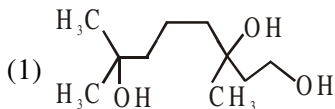
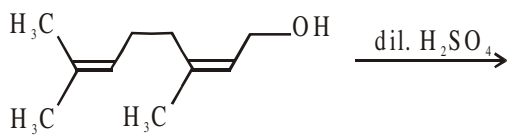
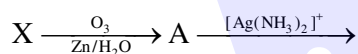


HYDROCARBON

1. The major product of the following reaction is :

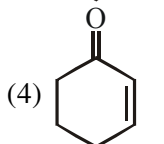
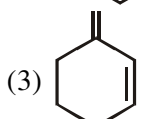
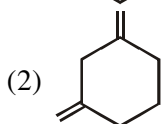
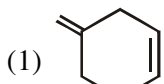


2. An unsaturated hydrocarbon X absorbs two hydrogen molecules on catalytic hydrogenation, and also gives following reaction :

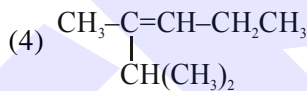
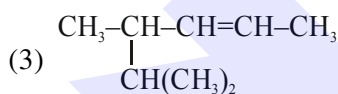
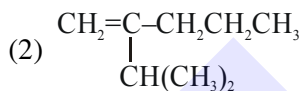
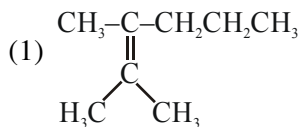
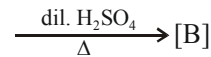
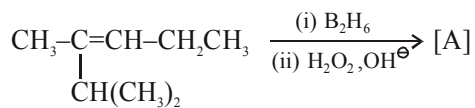


B(3-oxo-hexanedicarboxylic acid)

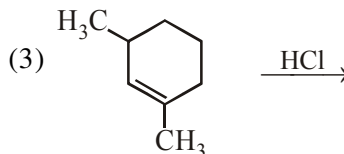
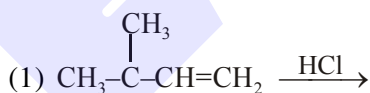
X will be :-



3. The major product [B] in the following sequence of reactions is :-

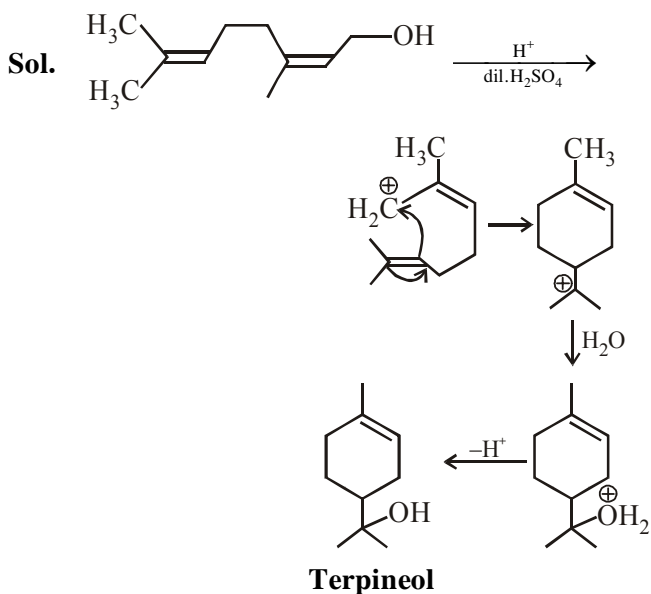


4. Which of the following reactions will not produce a racemic product ?



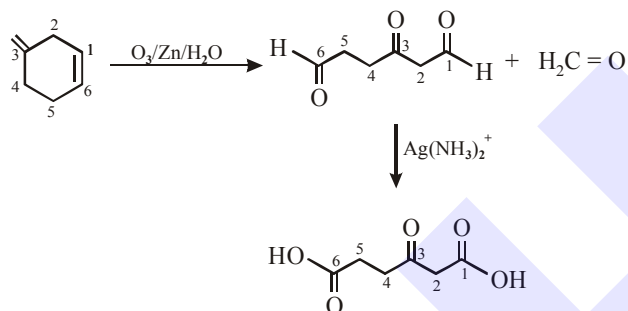
SOLUTION

1. NTA Ans. (2)



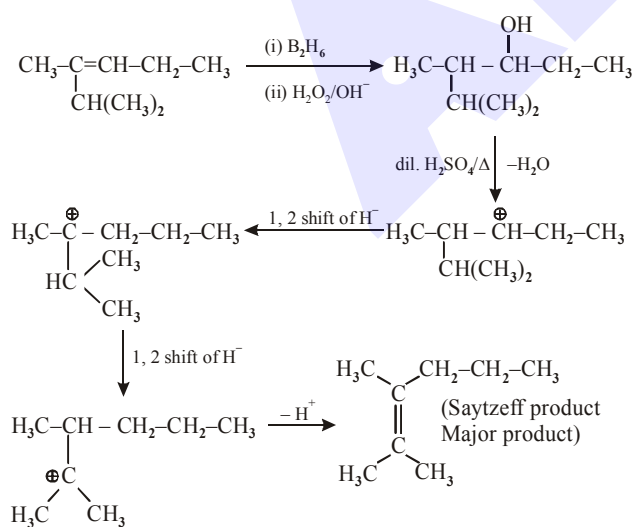
2. NTA Ans. (1)

Sol.



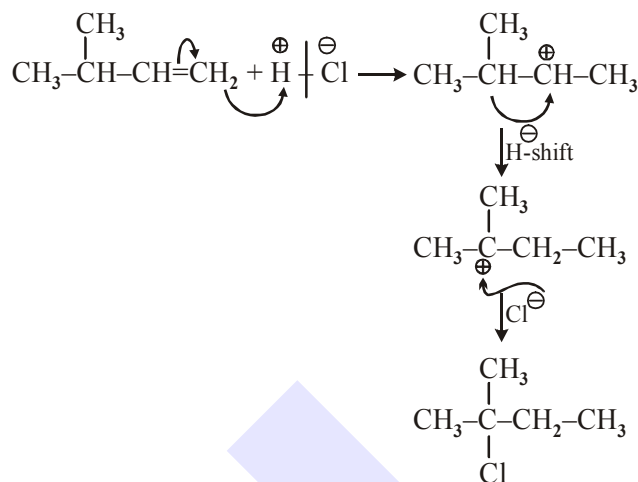
3. NTA Ans. (1)

Sol.



4. NTA Ans. (1)

Sol.



(No chiral centre, so no racemisation possible)