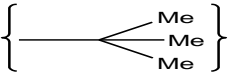


Type-MCQ

Q1. Pivalate  esters can be introduced selectively onto

1. 1° hydroxyl group
2. 2° hydroxyl group
3. 3° hydroxyl group
4. 1° amino group

Q2. Acetals & ketals are simply removed by treatment with

1. aqueous base
2. aqueous acid
3. concentrated base
4. NBS/H₂O

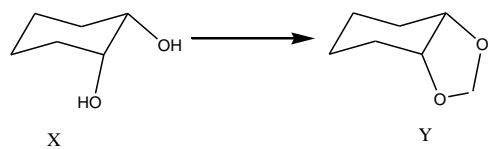
Q3. When molecule containing 1°, 2°, 3° alcoholic groups react with trityl chloride in pyridine this selectively protects

1. 1° alcoholic groups
2. 2° alcoholic groups
3. 1° amino groups
4. 2° amino groups

Q4. Trimethylsilyl ethers are deprotected under nucleophile----

1. F⁻
2. OH⁻
3. NH₂⁻
4. SH⁻

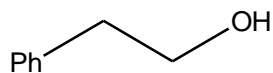
Q5.




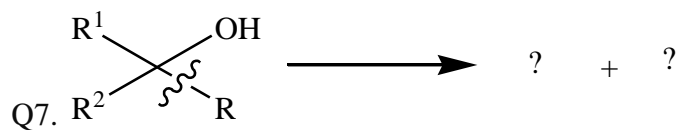
Protecting group used to protect diol in X structure is

1. $\text{CH}_2\text{Br}_2/\text{NaH}/\text{DMF}$
2. CH_3CHO , $\text{Conc. H}_2\text{SO}_4$
3. $\text{PhCHO}/\text{ZnCl}_2$
4. Cl_2CO in pyridine

Q6. High yielding synthetic equivalent formed in the below structure is

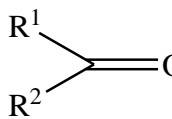
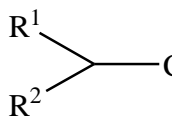


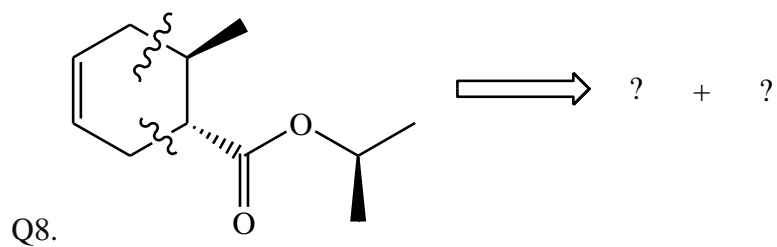
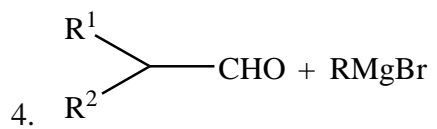
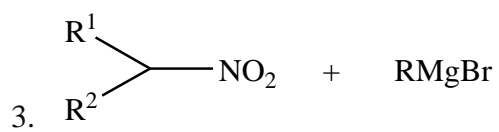
1. $\text{Ph-CH}_2\text{-MgBr} + \text{CH}_2\text{O}$
2. $\text{PhMgBr} +$ 
3. $\text{Ph-CH}_2\text{-CH}_2\text{-MgBr} + \text{OH}^-$
4. $\text{Ph-Mg-Br} + \text{Br-CH}_2\text{-CH}_2\text{-OH}$



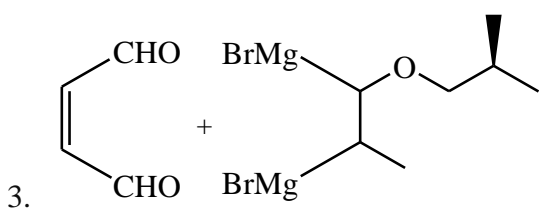
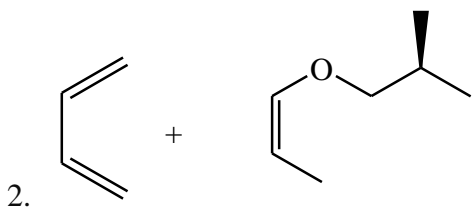
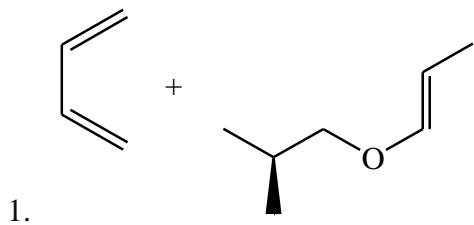
the synthetic equivalents formed are as

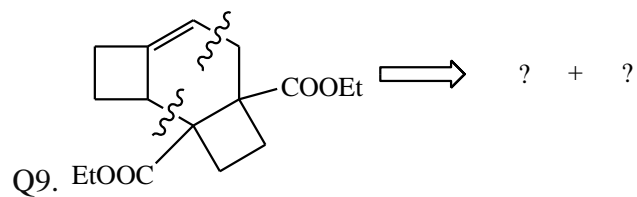
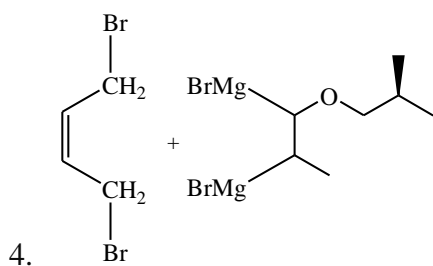
below

1.  + RMgBr
2.  + RMgBr

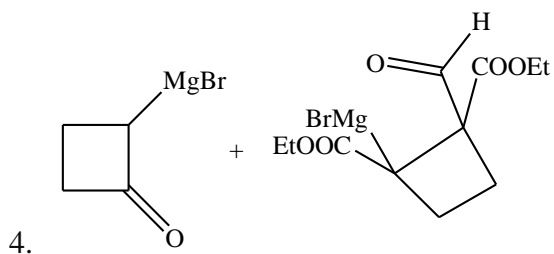
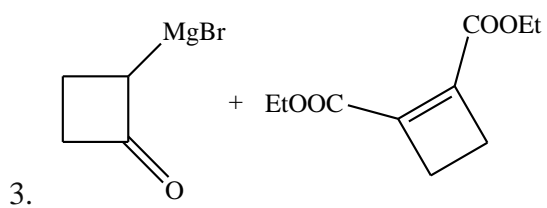
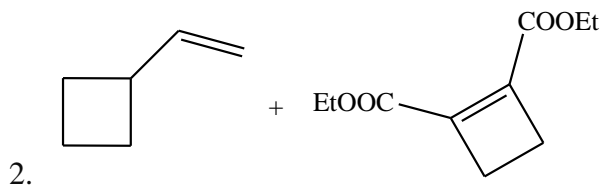
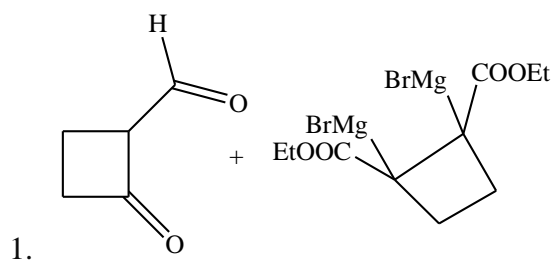


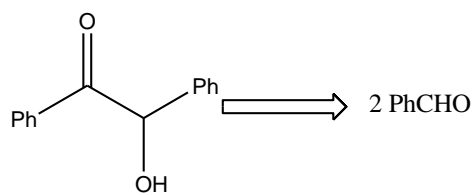
In this reaction synthetic equivalent formed are





In this reaction synthetic equivalent formed are





Q10.

the name of the reaction is

1. Benzilic acid rearrangement
2. Benzoin condensation
3. Aldol condensation
4. Knoevenagel condensation