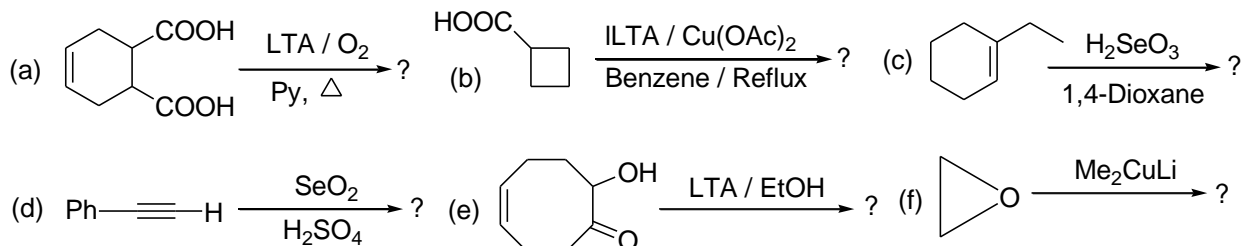


**RAIGANJ SURENDRANATH MAHAVIDYALAYA**  
**2nd Year Honours (ORGANIC CHEMISTRY)**  
**Class Test on "Reagents"**  
**F.M.-20, Time-45 Minutes**  
**Answer all questions:**

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1. Predict the products (Mechanism not required)



3

2. What is Liemieux Johnson reagent. Give its use.

1.5

3. Draw the structure of cyclic osmic ester formed by the reaction between cyclohexene, pyridine and OsO<sub>4</sub>.

1

4. Convert acetophenone to mandelic acid.

1.5

5. How can you convert 2-phenyl propanoic acid from phenyl acetic acid using LDA.

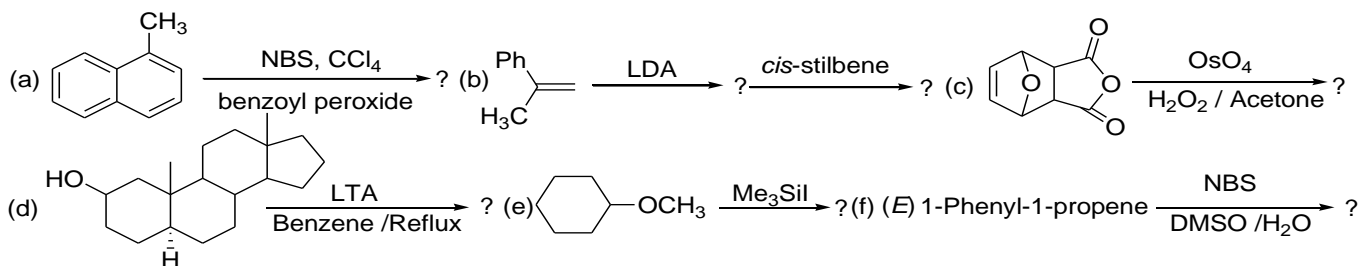
1.5

6. Using DIBALH synthesis EtCH=C(Et)COOH.

1.5

7. Predict the products with mechanism (**any 4**)

8



8. Show different degradation products of D(-) fructose when it is treated with periodic acid.

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