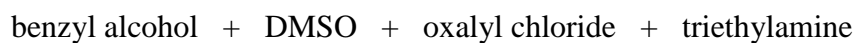


1. (4) Draw structures for (1) [3.3.3]propellane; (2) DEAD; (3) TBAF; (4) azomethane

2. (5) Write a balanced equation for the reaction below (a Swern oxidation).



3. (3) Provide an example of a Wittig reaction.

4. (3) Describe the Skell test for the ground state of a carbene.

5. (10) Provide a reasonable mechanism for each transformation shown below.

