

UNIVERSITY OF ESWATINI
SUPPLEMENTARY EXAM – 2019

TITLE OF PAPER : Advanced Organic Chemistry

COURSE NUMBER : C 403

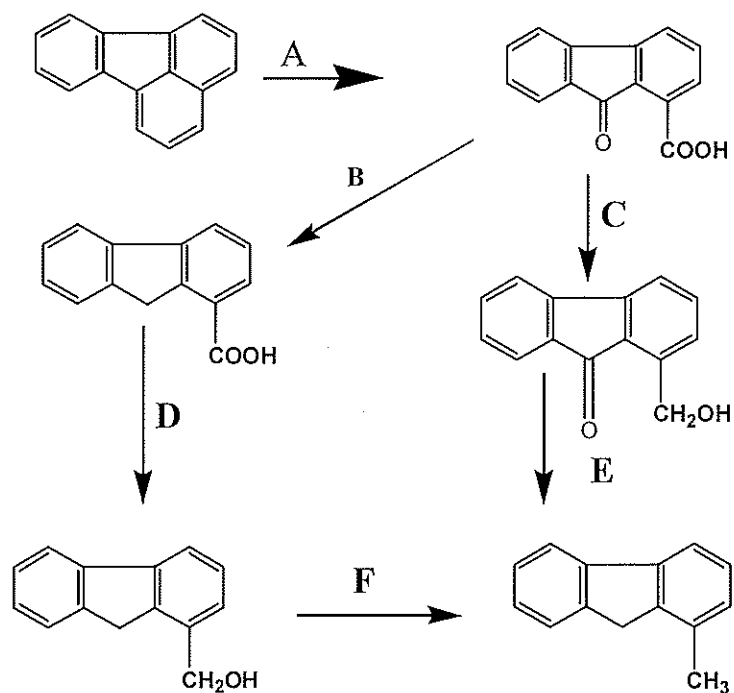
TIME : Three Hours

INSTRUCTIONS:

Answer any four (4) questions of the six (6) questions and every question holds 25 marks.

NB: all questions are to be answered in a separate answer sheet.

Reaction Scheme.



Question 3

- 5- and 6-membered organic ring compounds are the easiest to make, stable and quite common in nature. Why? (5)
- Prepare methyl substituted pyrrole and pyridine using a diketone starting material and “4+1” and “5+1” strategies, respectively. (5)
- Discuss the reactivity of Pyridine in comparison with Benzene. (5)
- Electrophilic Substitution of Pyridines favors the β position as compared to α/γ . What is the underlying cause for this preference? (5)
- What is the identity of the intermediate A? Explain why? (5)

