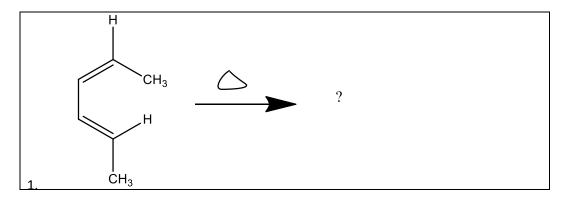
# PITHAPUR RAJAH'S GOVERNMENT COLLEGE(A) KAKINADA

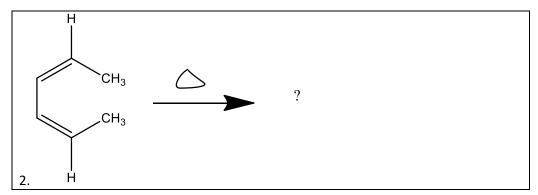
# **DEPARTMENT OF CHEMISTRY**

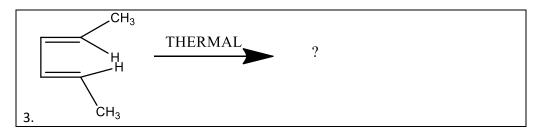
### **PROBLEM SET-1**

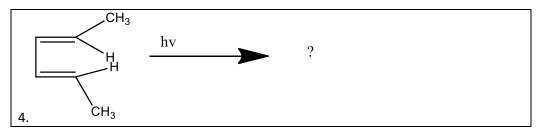
### **V SEMESTER PAPER 6A PERICYCLIC REACTIONS AND PHOTOCHEMISTRY**

# **Electrocyclic Reactions**

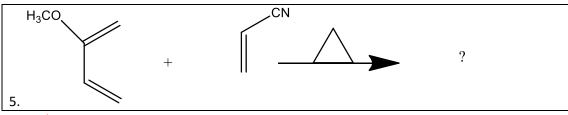




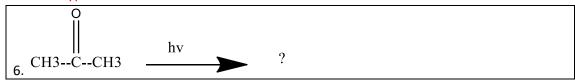


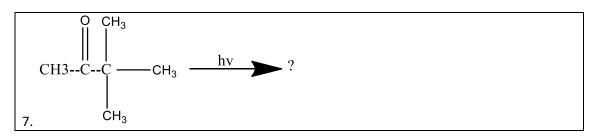


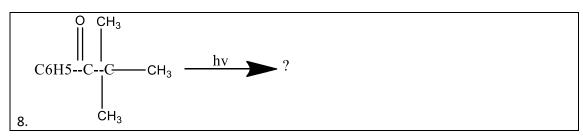
# **Cycloaddition Reaction**



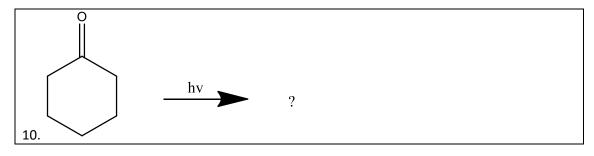
# Norrish Type-I Reactions

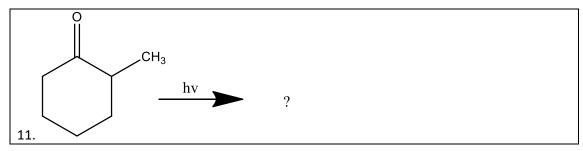


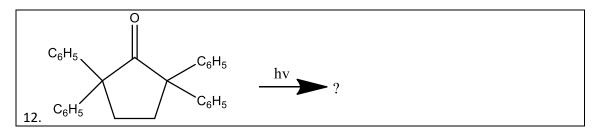




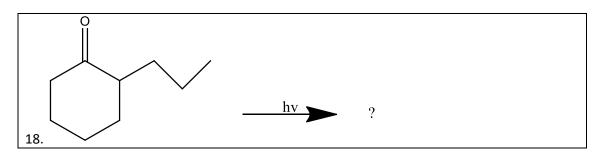








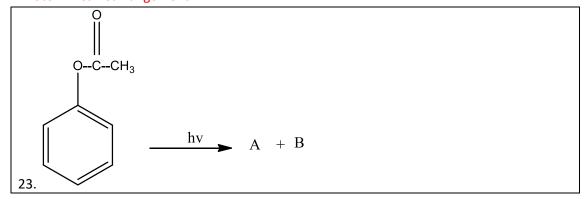
**Norrish Type-II Reactions** 

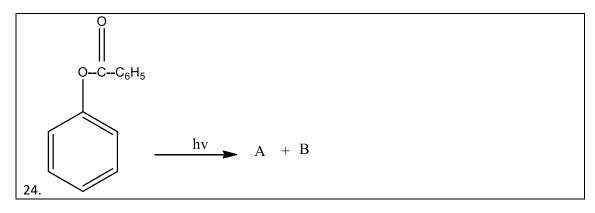


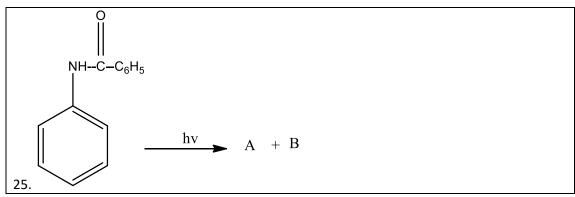
# Paterno-Buchi Reaction

$$C_6H_5$$
  $C_6H_5$   $C$ 

# Photo –Fries Rearrangement

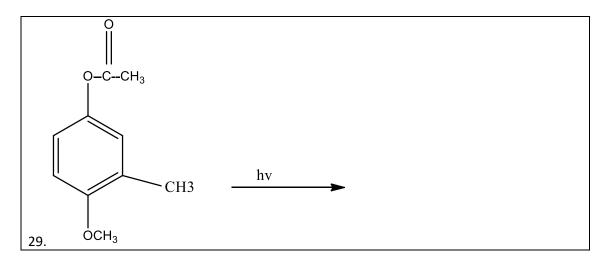






O--CH<sub>2</sub>--CH=CH<sub>2</sub>

$$hv \qquad \qquad A + B$$
26.



O--C--CH<sub>2</sub>CI

HO

$$hv \rightarrow A$$

CH3NH2

B

NaBH4

C