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#### **SEPTEMBER 2010**

Sub. Code: 3804

# **DOCTOR OF PHARMACY (PHARM. D) DEGREE EXAMINATION**

## (Regulations 2008-2009)

(Candidates admitted from 2008-2009 onwards)

### FIRST YEAR

**PAPER IV – PHARMACEUTICAL ORGANIC CHEMISTRY** 

Q.P. Code: 383804

**Time: Three Hours** 

### **Answer ALL questions**

 $(2 \ge 20) = 40$ 

Maximum: 70 marks

#### I. Elaborate on:

- 1. a) Write the Mechanism, reactivity, orientation of aromatic electrophilic substitution reaction with suitable examples.
  - b) Explain briefly about hybridization.
- 2. a) Why are aldehydes more reactive than ketone? Give an account of the nucleophilic additions of aldehyde with the help of general mechanism.
  - b) What are Organometallic compounds? How they are prepared? Give its synthetic applications.

# II. Write notes on:

- inker.com 1. Give the general methods of preparations of alcohols with examples? How will you differentiate between 1°, 2°, 3° alcohols?
- 2. Explain the following reactions:
  - i) Cannizaro reaction.
  - ii) Diel's Alder reaction.
- 3. Give the preparations of Ethers by Williamson's synthesis.
- 4. Add a note on Isomerism.
- 5. Explain Bayer's Strain Theory.
- 6. Add a note on Free Radicals.

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 $(6 \times 5 = 30)$