[LP 804] OCTOBER 2019 **Sub. Code: 3804**

PHARM. D DEGREE EXAMINATION
(2009-2010 Regulation)
FIRST YEAR
PAPER IV – PHARMACEUTICAL ORGANIC CHEMISTRY

Q.P. Code : 383804

Time : Three hours **Maximum : 70 Marks**

I. Elaborate on: **(4 x 10 = 40)**

1. Define nucleophiles. Explain briefly on the mechanism and kinetics of SN1 and SN2 reactions.
2. Enumerate the mechanism, reactivity and stability of free radical chain reactions of alkanes.
3. Define electrophile. Explain briefly about friedel craft alkylation and friedel craft acylation reaction with mechanism.
4. Compare and describe briefly on free radical substitution with free radical addition in carbon carbon double bonded systems.

II. Write notes on: **(6 x 5 = 30)**

1. Write a note on bimolecular displacement mechanisms.
2. Write a note on dienes and its types.
3. Brief out on Lewis Theory.
4. Write a note on the chemical properties of cyclo alkanes.
5. Briefly write a note on Markownikoff rule.
6. Add a note on the mechanisms of Knoevenagel reaction.

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