UNIVERSITY

Directorate of Distance Education (DDE) KUPPAM – 517 426:: A.P. Course: II year M.Sc. (Chemistry) Paper – I: organic Chemistry Question Paper for Assignment

Answer any <u>**THREE</u>** of the following <u>**FIVE**</u> Questions.</u>

DRAVIDIAN

3x10=30

Set - I

- 1. Write a short note on a) Photochemical energy b) Phosphorescence c) Photosensitization?
- 2. Write briefly a) Molecular orbital symmetry b) classification of pericyclic reactions?
- 3. Explain the synthesis of Grignard and it's mechanism?
- 4. Explain pinacol –pinacolone rearrangement and it's mechanism?
- 5. Write the reduction reaction with a) Aluminium hydride b) sodium borohydride?

Set - I



UNIVERSITY

Directorate of Distance Education (DDE) KUPPAM – 517 426:: A.P. Course: II year M.Sc. (Chemistry) Paper – II: HETEROCYCLIC CHEMISTRY CHEMOTHERAPY AND PROSTAGLANDINS Question Paper for Assignment

Answer any **<u>THREE</u>** of the following **<u>FIVE</u>** Questions.

DRAVIDIAN

3x10=30

- 1. Write the nomenclature, synthesis and reactions of oxirane?
- 2. What is chemotherapy? Write the synthesis and activity of quinine?
- 3. Explain the synthesis and activity of penicillin?
- Give a definition, occurrence, structural formulae physiological function of vitamin A & B2?
- 5. Write the structure and synthesis of PGE 1?



UNIVERSITY

Directorate of Distance Education (DDE) KUPPAM – 517 426:: A.P. Course: II year M.Sc. (Chemistry) Paper – III: Polymers, Bio-Polymers Question Paper for Assignment

Answer any **<u>THREE</u>** of the following **<u>FIVE</u>** Questions.

DRAVIDIAN

3x10=30

- 1. Write the synthesis and applications of Nylon and Buna S.?
- 2. Write about the classification & properties of proteins?
- 3. Write a brief account on replication & transcription?
- 4. Write about decarboxylation reactions of amino acids?
- 5. Write the synthesis and functions of vitamin D?

Set - I



UNIVERSITY

Directorate of Distance Education (DDE) KUPPAM – 517 426:: A.P. Course: II year M.Sc. (Chemistry) Paper – IV: Natural Products Question Paper for Assignment

Answer any **<u>THREE</u>** of the following **<u>FIVE</u>** Questions.

DRAVIDIAN

3x10=30

- 1. Explain the synthesis and structure of Atropine?
- 2. Explain the synthesis and structure of abietic acid?
- 3. Explain the occurrence and nomenclature of Diels hydrocarbon?
- 4. Explain the synthesis and structure of Androsterone?
- 5. a) Write a short note on Biological importance of flavonoids ?
 - b) Write a short note on the structure determination of Apigenin?