

THE AMERICAN COLLEGE, MADURAI

(An Autonomous Institution Affiliated to Madurai Kamaraj University) Re-accredited (2nd Cycle) by NAAC with Grade "A", CGPA – 3.46 on a 4-point scale

Backlog Arrear Examination, March 2021

CHE 3511 ADVANCED ORGANIC CHEMISTRY MAX :75 MARKS

Time: 3 Hrs

(Answer any FIVE questions)

5X15 = 75

1. a} Illustrate i) Iso-electric point

ii) zwitter ion

b) Describe the structure of proteins.

(3+3+9)

- 2. Write notes on i) solid phase peptide synthesis
 - ii) Mutarotation
- iii) Reducing sugars

(6+5+4)

- 3. a) Explain the cyclic structure of glucose
 - b) Effect the ascending and decending of sugar series with suitable examples. (7+8)
- 4. a) Describe the mode of enzyme action.
 - b) Differentiate DNA from RNA.

(7+8)

- 5. Elucidate the structure of alkaloid atropine.
- 6. Discuss about the following:
 - a) Iodine value
- b) Saponification value
- c) Rancidity ((5+6+4)

- 7. a) State and explain isoprene rule.
 - b) How will you arrive at the structure of menthol

(5+10)