



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 1502/1512

CHEMISTRY FOR BIOLOGIST -II

Max marks: 75 Marks

Time: 3 Hrs

Answer any FIVE questions

5 x 15=75

1. Draw and explain Bomb calorimeter.
2. What is enzyme catalysis? Drive Michaelis Menton equation and write its applications.
3. Discuss the instrumentation method, principle and applications of UV spectroscopy with neat diagram.
4. Describe the determination of optical activity of a compound with polarimeter.
5. Write a short note on (i) HSAB principle (ii) Arrhenius theory.
6. Derive Kirchoff's equation.
7. (a) What is finger print region? Give its significance. [7]
(b) Write a note on various molecular IR vibrations. [8]