



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 2414/0144

CHEMISTRY FOR ZOOLOGIST-II

Time: 3 Hours
Max Marks: 75

Answer any FIVE questions

5 x 15=75

1. Write a short note and give suitable examples for given below
 - a) Substitution reactions
 - b) Addition
 - c) Elimination
 - d) Oxidation
 - e) Reduction
2. Explain various Reactive intermediates and their stability
3. Discuss enzyme catalysis using Michaelis-Metion equation.
4. Briefly explain the Hemoglobin and Vitamin B₁₂ structure and their biological role.
5. List out the importance of Calcium, Platinum, Lithium, Silver, Gold metal as a medicines.
6. Write the principle and explain Column, TLC and Paper chromatographic methods for the purification of organic compounds.
7. State Beer-Lambert law. Explain various electronic transitions in UV-Visible spectrum and their application in biology.
