



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

PGZ 4424

Cell Biology

Max. : 75 marks

Time: 3 hours

Answer any FIVE questions.

5 X 15 = 75

1. Explain the principle of electron microscopy and the methods for preparation of materials for observation in an electron microscope.
2. Describe the membrane architecture of a cell in the light of fluid mosaic model with a neat diagram.
3. Give a detailed account on gap junction and tight junction.
4. Elucidate the molecular mechanism of cell signalling by peptide hormones,
5. Discuss the role of microtubule in ciliary movement.
6. With the help of neat sketch explain the orders of DNA packaging.
7. Enlist the stages and process of metastasis.
