



# THE AMERICAN COLLEGE, MADURAI

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

## Backlog Arrear Examination, March 2021

**BCH 2336**

**Cancer Biology**

**Max Marks: 75**

**Time: 3 Hrs.**

### PART A

**Answer any FIVE questions each not exceeding 4 pages:**

**(5 x 15 = 75)**

1. Explain the causes and symptoms of oral cancer. Add a special note on cancer of lip and tongue.
2. Describe the composition and stages of extracellular matrix in a cancer cell.
3. Write detailed account on apoptosis and Bcl2 family proteins.
4. Explain the BRCA 1 & BRCA 2 genes in detail.
5. What are stem cells? Write on the 3 types of stem cells.
6. Describe the causes, symptoms and treatments of lung cancer.
7. Define tumour markers. Elaborate on the types and importance of tumour markers with typical examples.