



**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**

**MIC 3223**

**Biosafety and Bioethics**

**TIME:2Hrs**

**Max: 60 marks**

**ANSWER ANY Four QUESTIONS**

**(4x15= 60 marks)**

1. Define Biosafety Level. Add note on its types in detail.
2. What is bioethics? Elaborate the Origin and evolution of ethics in to bioethics.
3. Give a detailed account on the Intellectual Property Rights.
4. Discuss in detail the categories, legal requirement for the release of GMO into the environment. Add note on the impact of GM crops.
5. Explain about the merits and Demerits of Cloning.
6. Write an essay on the ethical concern in Microbiology and Biotechnology research