

M.Sc. Examination, 2019

Semester-IV

Biotechnology

Course : XVII

(Bioethics, Intellectual Property Rights, Biosafety and Research Methodologies)

Time : 3 Hours

Full Marks : 40

Questions are of value as indicated in the margin.

Answer **any four** questions

1. a) What is the difference between research methods and research methodology?
b) Describe briefly on writing a research article. 4+6=10
 2. a) What are the socio-economic and ethical issues regarding releasing GMOs.
b) Write down the role of Institutional Biosafety Committee. 4+6=10
 3. What are the environment concerns regarding genetically modified food crops? How can these issues be addressed?
 4. a) What are the different elements of writing research proposal for funding?
b) What is a PCT application? What are the advantages of a PCT application? 4+6=10
 5. a) Briefly describe the role of FSSAI.
b) Comment briefly on the medical ethics in euthanasia.
 6. Describe briefly the Protection of Plant Varieties and Farmers' Right Act, 2001. What are the provisions which protect the interest of Indian farmers' in the Act. 6+4=10
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