

**Fourth Semester FYUGP Degree (Reg) Examination April  
2026**

**KU4VACZOO102/KU4VACZCB202 - ETHICS IN  
BIOLOGICAL RESEARCH**

2024 Admission onwards

Time : 1.5 hours

Maximum Marks : 50

**Section A**

**Answer any 6 questions. Each carry 2 marks.**

1. What is Urkund plagiarism software?
2. Mention two examples of unethical publication practices.
3. How can informed consent in human research may be defined?
4. What are the precautions you follow while publishing images from human participants
5. List out any four importance of ethics in biological research
6. List a few responsibilities of Ethical Research Committee
7. What is gene knock-out & gene knock-in with regard to animal experimenting?
8. What is 4Rs in animal experimentation?

**Section B**

**Answer any 4 questions. Each carry 6 marks.**

9. Critically examine the importance of ethical guidelines in biological research.
10. How do you stick on to the core principles of research integrity without any scientific misconduct, during the process of your research work
11. What is the "Value of Gender Approach" in social and economic development?
12. Explain the ethical responsibilities of researchers using animals.
13. Critically analyse the key features of the PCA Act, 1960.
14. Analyse the role and functions of CPCSEA and IAEC in regulating animal experimentation.

**Section C**

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**Answer any 1 questions. Each carry 14 marks.**

15. Describe the features and uses of PubMed and Google Scholar.
16. What are the principles to be followed while conducting research on mentally challenged individuals