

PE-847
(614) M.Sc. Biotechnology (Fourth Semester)
Examination June 2022
Compulsory/Optional
Research Methodology, Bioethics and IPR
Paper-IV

Time: Three Hours

Maximum Marks: 080
Minimum Passing Marks:

Note: Answer from both section as directed. The figures in the right-hand margin indicate marks.

SECTION-A

1. Answer the following questions in one word or sentence:- [1 X 10 = 10]
- (a) What is discrete variables?
 - (b) What is median?
 - (c) Write down the name of any two biological databases.
 - (d) What is citation?
 - (e) What is the full for RCGM?
 - (f) Write down the function of GATT?
 - (g) What are the types of IPR?
 - (h) Which of the vectors are widely used in HGP?
 - (i) Write down the name of the largest gene in humans?
 - (j) Which government body/committee in India ensures the ethical use of animals in experiments?
2. Answer the following questions in 2-3 sentences:- [2 X 5 = 10]
- (a) Write a short note on dispersion.
 - (b) What is the difference between a research paper and a review paper?
 - (c) Write a note on IBSC.
 - (d) Briefly discuss about geographical indications and their functions.
 - (e) Write a short note on the animal rights.

SECTION-B

- Long answer-type questions:- [15 X 4 = 60]
3. Give a detailed explanation of biological databases.
- Or,**
- Write is the importance of DATA storing? Discuss the importance of MS excel and power point in research.
4. Give detail information about the IMRAD system.
- Or,**
- Discuss different kinds of scientific documents and their use.
5. Write an essay on world trade organization and its importance.
- Or,**
- What is patent? Describe different types of patent and its importance in trade.
6. Describe the ELSI related with Human Genome Project.
- Or,**
- Write the general guidelines of transgenic research. Discuss the issues related with environmental release of transgenic plants.