

2072

M.Sc. (Bio-Informatics) Fourth Semester
MBIN-8019: Informatics in Biodiversity and Bioethics

Time allowed: 3 Hours

Max. Marks: 60

NOTE: Attempt five questions in all, including Question No. I which is compulsory and selecting atleast one question from each Unit.

x-x-x

I. Answer briefly:-

- a) Microevolution
- b) NCBI Taxonomy
- c) Selection in Speciation
- d) Transposition
- e) Bioethics of genes
- f) Evidence of Speciation
- g) Gradualism Model

(12)

UNIT - I

- II. a) Discuss the significance of maintaining Ecological Biodiversity.
- b) What is the role of Reproductive Isolation in Speciation?

(2x6)

- III. Write a note on the different types of Species Diversity.

(12)

UNIT - II

- IV. a) Write a note on Indian Biodiversity Portal.
- b) Discuss the Mosquito genome database.

(2x6)

V. Write notes on:-

- a) ATCC
- b) Fishnet
- c) Species2000

(3x4)

UNIT - III

- VI. a) Discuss the process of *In vitro* Fertilization and Implantation.
- b) Write a note on Intellectual Property Rights.

(2x6)

P.T.O.

(2)

VII. a) Elaborate on the significance of Bioethics in health Care.

b) Discuss the significance of Cartagene Protocol on Biosafety.

(2x6)

x-x-x