

Examination 2022

Paper Name: Biodiversity (Microbes, Algae, Fungi and Archegoniate)

Paper code: BBO – C101

Time: Three hours

Max. Marks: 70

Note: Question paper is divided into two sections A and B. Attempt all section as per instructions.

Section – A

(Short Answer type Question)

Note: Answer any five questions in about 150 words each. Each question carries six marks.

- Q. 1. Briefly explain plants used in Yajna?
- Q. 2. Write short notes on Vedic classification of plants.
- Q. 3. Explain briefly structure of RNA virus (TMV) with suitable diagram.
- Q. 4. Discuss the economic importance of bacteria with suitable examples.
- Q. 5. Write a brief note on ecology and distribution of fungi.
- Q. 6. Write a brief note on symbiotic association of Lichens.
- Q.7. Write a brief account on general characteristics and adaptation to land habit in Bryophytes.
- Q. 8. Describe the general characteristics, morphology and reproduction in *Selaginella*.
- Q. 9. Give a brief account on heterospory and seed habit in Pteridophytes.
- Q.10. Describe the general characteristics, morphology, and reproduction in *Pinus*.

Section – B

(Long answer type questions)

Note: Answer any four question in detail. Each question carries ten marks.

- Q. 1. Describe the general characteristics, structure, and various methods of reproduction in Bacteria.
- Q. 2. Give a detailed account on general characteristics, range of thallus organisation and economic importance of algae.
- Q. 3. Describe the morphology, reproduction and life cycle of in *Nostoc* with suitable diagram.
- Q. 4. Describe general characteristics, ecology, cell wall composition and mode of nutrition in Fungi.
- Q. 5. Describe the general characteristics, classification, reproduction and life cycle early land plant *Rhynia*.
- Q. 6. Give a detailed account on general characteristics, morphology, anatomy, reproduction, ecological and economic importance of gymnosperms.
- Q. 7. Describe the classification, morphology, anatomy and reproduction of *Marchantia* with suitable diagrams.
- Q. 8. What is mycorrhiza? Give a detail account on significance of ectomycorrhiza and endomycorrhiza.