



JBF-003-1191003 Seat No. _____

**M. Sc. (Microbiology) (Sem. I) (CBCS)
(W.E.F. 2016) Examination**

December - 2019

Micro - 103 : Biodiversity & Biosystematics

Faculty Code : 003

Subject Code : 1191003

Time : $2\frac{1}{2}$ Hours]

[Total Marks : 70

1 Answer the following : (Any **Seven** out of ten - **7×2=14**
02 marks each)

- (a) Give types of biodiversity?
- (b) What is ecosystem?
- (c) What are extinct species?
- (d) What is flagship?
- (e) What are Biomes?
- (f) Define species.
- (g) What is bilateral symmetry?
- (h) What are characteristics of Archaea?
- (i) Give two examples of Gymnosperm plants.
- (j) What is red tide phenomena?

2 Answer the following : (Any **Two** out of three - **2×7=14**
07 marks each)

- (a) Explain in detail threats to biodiversity caused due to habitat loss.
- (b) What is ecological monitoring? describe in detail.
- (c) How unsustainable and excessive consumption of biodiversity is a big threat?

- 3** Answer the following : (07 marks each) **2×7=14**
(a) Describe in detail the salient features of Procaryotes.
(b) Give a brief account on classification of Bacteria.

OR

- 3** Answer the following : (07 marks each) **2×7=14**
(a) Describe the symbiotic relationship between fungi and plantroots.
(b) Write about the features and types of akaryotes.

- 4** Answer the following questions : **2×7=14**
(a) Write about the diatom and Dinoflagellates.
(b) Describe general features of lichens.

- 5** Answer the following : (Any **Two** out of four - **2×7=14**
07 marks each)
(a) Describe different types of symmetry in animal kingdom with example.
(b) What is ecotourism? Explain its principles in detail.
(c) Write about coral reef ?
(d) Explain ex-situ conservation of biodiversity in detail with examples.
