



HEI-003-1191003 Seat No. _____

M. Sc. (Microbiology) (Sem. I) (CBCS) Examination

November / December – 2017

Micro - 103 : Biodiversity & Biosystematics

Faculty Code : 003

Subject Code : 1191003

Time : 2 Hours]

[Total Marks : 70

- Instructions :** (1) All questions are compulsory.
(2) Support your answers with suitable illustrations where required.

1 Answer any **seven** : (2 marks each) **14**

- (a) What is biodiversity?
- (b) Why biodiversity is important to us?
- (c) What is the correlation between the biodiversity and biotechnology?
- (d) How climate change and biodiversity are related?
- (e) What are the invasive species.?
- (f) Comment on akaryotes.
- (g) Enlist general features of fungi.
- (h) What are lichens?
- (i) Comment on the green protists.
- (j) What are the characteristics of mammals?

2 Answer any **two** of the following : **7x2=14**

- (a) Discuss basic concept of the biodiversity and highlight its significance.
- (b) Discuss various factors which adversely affect the biodiversity.
- (c) What are the principle and methods of the classification of plants? Discuss.

- 3** Answer the following : (7 marks each) **14**
- (a) Discuss Convention on Biological Diversity with respect to its function and significance.
 - (b) What are the principle and methods of microbial classification? Discuss.

OR

- 3** Write comments on : (7 marks each) **14**
- (a) Describe cyanobacteria with respect to their diversity and function.
 - (b) Write comments on ecotourism and biodiversity.
- 4** Answer the following : (7 marks each) **14**
- (a) What are the basic features of the fungi? Briefly describe different groups of the fungi.
 - (b) What is sustainable development? How does it relate to the conservation of biodiversity?
- 5** Write comments on any two of the followings : **14**
(7 marks each)
- (a) National Action Plan on Biodiversity
 - (b) Mycorrhizae
 - (c) Classification of Protists
 - (d) Characteristic features of amphibians, reptiles and birds.
