



JBF-003-1141003

Seat No. _____

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

December - 2019

Biodiversity and biosystematics : Paper - 103

Faculty Code : 003

Subject Code : 1141003

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

[Total Marks : 70

Instructions : All questions are compulsory and carry equal marks

1 Answer any **seven** questions from the followings : **14**

- (a) What is conservation of biodiversity? Give its types.
- (b) What is flagship? Explain
- (c) What are hotspots? Give an example
- (d) Distinguish between Taxonomy and Systematics
- (e) Distinguish between Classification and Identification
- (f) Write the importance of Taxonomy in life science
- (g) What is the difference between bacteria and archaea?
Write key characters
- (h) What is difference between prokaryotic and eukaryotic cell?
- (i) What is radial symmetry?
- (j) What is slime mold?

2 Write notes on an **two** of the followings : **14**

- (a) Ecological monitoring
- (b) Ecological rehabilitation
- (c) Ecotourism

3 Write notes on the followings : **14**

- (a) Key characteristics of bacteria
- (b) Distinction in Ascomycetes and Basidiomycetes

OR

- 3** Write notes on the followings : **14**
- (a) Cyanobacteria
 - (b) Protista
- 4** Answer the following questions : **14**
- (a) How algae are classified? Discuss major group of the algae with taxonomical important features
 - (b) Explain with suitable examples the Non-tracheophytes and non-seed tracheophytes
- 5** Write notes on any **two** of the followings : **14**
- (a) Factors affecting stability in biodiversity
 - (b) Biodiversity and its type
 - (c) Characteristics of Gymnosperms
 - (d) Lower chordates
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