



DCV-003-1191003

Seat No. _____

M. Sc. (Sem. I) (CBCS) (WEF-2016) Examination

August - 2022

MICRO-103 : Microbiology
(Biodiversity and Biosystematics)

Faculty Code : 003

Subject Code : 1191003

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

[Total Marks : 70

Instructions : Answer any five questions. Each question carry 14 marks.

- 1 Answer all seven : (2 marks each) 14
- (1) Give definition of Genetic diversity with example.
 - (2) Give definition of Ecosystem diversity with example.
 - (3) What is importance of biodiversity on planet earth?
 - (4) Give definition of γ -diversity with Example?
 - (5) What is Tundra?
 - (6) Define Mycorrhizae.
 - (7) Define species of Procaryotes.
- 2 Answer all seven : (2 marks each) 14
- (1) Describe radial symmetry?
 - (2) Describe the characters of Zooflagellates? Any two.
 - (3) What is coral reef?
 - (4) What is bilateral symmetry?
 - (5) Explain types of habitat in which Gymnosperms are found.
 - (6) Explain types of habitat in which Angiosperms are found.
 - (7) Give difference between cell membrane of Archaea and Eukarya.
- 3 Answer all two : (7 marks each) 14
- (1) Explain the types of Biodiversity on the basis of variation in organisms with examples.
 - (2) Give detail note on Ecotourism.

- 4 Answer all two : (7 marks each) 14
(1) Explain: Conservation and sustainable use of Biodiversity.
(2) Discuss the Threats of Marine Biodiversity.
- 5 Answer all two : (7 marks each) 14
(1) Explain the features of Fungus.
(2) Write the phage lytic cycle.
- 6 Answer all two : (7 marks each) 14
(1) Explain characteristics of Prokaryotes.
(2) Explain classification of Prokaryotes.
- 7 Answer all two : (7 marks each) 14
(1) Give difference between general characteristics of Archaea, Bacteria and Eukarya.
(2) Explain reproduction organs of Bryophytes in detail with diagram.
- 8 Answer all two : (7 marks each) 14
(1) Explain fertilization process of bryophytes in detail with diagram.
(2) Explain fertilization process of pteridophytes in detail with diagram.
- 9 Answer all two : (7 marks each) 14
(1) Give the account of classification of protista?
(2) Give the classification of Echinodermata upto the class with example?
- 10 Answer all two : (7 marks each) 14
(1) Describe the characters of Reptilia?
(2) Give the classification of Chordata? flow chart?
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