

M.Sc. (Botany) Semester - 1 (CBCS) Examination
Jan/Feb.-2022 [NEW COURSE]
BIODIVERSITY AND BIOSYSTEMATICS(CORE)

Time: 1:30 Hours**Marks: 42****Instructions:**

1. Figures to the right indicate marks.
 2. There are five questions in the question paper.
 3. Answer any three of the following questions.
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- Q.1 Answer any seven questions from the followings: 14
- a) Distinguish between Taxonomy and Systematics
 - b) What are hotspots? Give an example
 - c) What is anthropogenic biodiversity? Explain
 - d) What is ecosystem biodiversity? Explain
 - e) Distinguish between Classification and Identification
 - f) How Taxonomy studies helps in life science?
 - g) Enlist four morphological characteristics used in microbial taxonomy
 - h) Distinguish between prokaryotic and eukaryotic cell
 - i) What is radial symmetry? explain
 - j) What is mushroom? Give two examples
- Q.2 Write notes on any two of the followings: 14
- a) Ecotourism
 - b) Ecological biodiversity
 - c) Threats to biodiversity due to pollution
- Q.3 Write notes on the followings: 14
- a. Common parasites and pathogens of human and domestic animals.
 - b. How fungi are classified? Discuss major group of the fungi with taxonomical important features
- Q.4 Answer the following questions: 14
- A. Any two out of three questions 10
- a) Key features of Gymnosperms
 - b) Non-seed tracheophytes
 - c) Principles of systematics and classification of Plants
- B. Any one out of two questions 04
- a) Explain with suitable examples the Non-tracheophytes
 - b) Angiosperms
- Q.5 Write notes on any two of the followings: 14
- a) Describe phylum Platyhelminthes and Annelida
 - b) Describe different type of symmetry with example
 - c) Describe the characters of Reptile
 - d) Give the classification of Chordate
