

PG Odd Semester (CBCS) Exam., December—2018

UNIT—II

LIFE SCIENCE AND BIOINFORMATICS

(1st Semester)

Course No. : LSBCC-104

(Environment and Conservation Biology)

Full Marks : 70

Pass Marks : 28

Time : 3 hours

*The figures in the margin indicate full marks
for the questions*

Answer **five** questions, selecting **one** from each Unit

UNIT—I

1. Write the principles of International Code of Nomenclature for algae, fungi and plants. Add a note on taxonomic hierarchy. 10+4=14
2. Write notes on the following : 7×2=14
 - (a) Adaptive radiation and adaptive modification
 - (b) Biological species concept

3. With suitable example, explain the interaction between biotic and abiotic factors in a terrestrial ecosystem. Add a note on ecological niche. 10+4=14
4. Write notes on the following : 7×2=14
 - (a) *r* and *k* selection
 - (b) Symbiosis

UNIT—III

5. Write notes on the following : 7×2=14
 - (a) Biodiversity in Eastern Himalayan Region
 - (b) Liebig's Law of minimum
6. Discuss in detail the concept of community dynamics in a terrestrial biome. 10+4=14

UNIT—IV

7. What do you mean by ecological succession? Discuss the different stages of succession with an example. Add a note on edge effect. 2+8+4=14

(3)

8. Add notes on the following : $7 \times 2 = 14$

(a) N_2 -cycle

(b) Monitoring of Biodiversity

UNIT—V

9. What do you mean by remote sensing?

Explain the importance of remote sensing in assessment and conservation of Biodiversity.

$3 + 11 = 14$

10. Write notes on the following : $7 \times 2 = 14$

(a) Biosphere reserve

(b) NBA and its structure and role in biodiversity conservation
