PG Odd Semester (CBCS) Exam., December—2017

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

1. Discuss in detail the basis of biological species concept. Add notes on allopatric and sympatric speciations. 14

OR

2. Write notes on the following : 7+7=14

(a) Tautonomy and its acceptability in botanical and zoological nomenclature

(b) Adaptive radiation

3. With an example, describe interactions of biotic and abiotic components in aquatic ecosystem. 14

OR

4. Write notes on the following : 7+7=14

(a) *r* and *k* selections

(b) Growth curve

5. Discuss the special feature of desert ecosystem of India and its biotic component. Compare desert ecosystem with cold desert. 10+4=14

OR

6. Write notes on the following : 7+7=14

(a) Ecological succession of climax community

(b) Common birds of North-Eastern India

7. *(a)* Discuss the characteristic features of climax community. 10

(b) Add a note on ecotone. 4

OR

8. What is succession? Mention different types of succession. Schematically describe the steps of succession. 4+4+6=14

9. Write in detail, the structural organization of National Biodiversity Authority, its principles and role in biodiversity conservation. 14

OR

10. Write notes on the following : 7+7=14

(a) Basic principles of remote sensing in assessing biodiversity

(b) Significance of biosphere reserve in conservation of biodiversity

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