PG Odd Semester (CBCS) Exam., December—2016

ECOLOGY AND ENVIRONMENTAL SCIENCE

(3rd Semester)

Course No. : ECGCC–303

(Biodiversity Conservation)

Full Marks : 70

Pass Marks : 28

Time : 3 hours

The figures in the margin indicate full marks for the questions

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

UNIT—I

1. Define biodiversity. Write down the levels and types of biodiversity. Give an account on the history of biodiversity conservation. 2+3+9=14

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

(a) *Ex-situ* and *in-situ* conservation

(b) Social and cultural value of biodiversity

UNIT—II

3. Write an account on the phenomenon that has led to changes in climate and its impact on various forms of biodiversity. 14

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

(a) Convention on Biological Diversity (CBD)

(b) Biodiversity and Ecosystem Services

UNIT—III

5. Mention the objectives of the Biological Diversity Act, 2002. Write down the salient features of the Act. Add a note on the role of Biodiversity Management Committees (BMCs) in the conservation of biodiversity. 3+6+5=14

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

(a) Biodiversity hot spots

(b) National Biodiversity Authority (NBA)

UNIT—IV

7. Write an account on the national parks of North-East Indian States along with their ecological setup, flora and faunal characteristics. Add a note on the major challenges faced by each of them. 10+4=14

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

(a) Biological invasions

(b) Threatened vascular plants of North-East India

UNIT—V

9. What is ethnobotany? How the traditional culture and social setup helps in the conservation of the local plant resources having high cultural value? 2+12=14

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

(a) IPR and biodiversity

(b) Sacred groves

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