

D 72966

(Pages : 2)

Name.....

Reg. No.....

**FIRST SEMESTER M.Sc. DEGREE EXAMINATION, DECEMBER 2014**

(CUCSS)

Environmental Science

ES 1C 03—ENVIRONMENTAL BIOLOGY—I

Time : Three Hours

Maximum : 36 Weightage

I. Answer *all* questions. Each question carries 1 weightage :

- 1 What is Autecology ?
- 2 What is ecological dominance ?
- 3 What is a Grazing food chain ?
- 4 What is the trophic status of an aquatic bird in a pond ?
- 5 Give the different types of phosphorous found in water.
- 6 What is  $LC_{50}$  ?
- 7 What is meant by ecological niche ?
- 8 What is species diversity ?
- 9 Define Pyramid of energy.
- 10 What is the percentage of nitrogen in atmospheric air ?
- 11 What is Leebigs law of the minimum ?
- 12 What is meant by euryheline organism ?
- 13 Give an example of a limiting factor.
- 14 Define Ecophysiology.

(14 × 1 = 14 weightage)

II. Answer any *seven* questions. Each question carries 2 weightage :

- 15 Give a brief account of history of Ecology.
- 16 Write briefly on positive interactions between species.
- 17 Describe oxygen-carbondioxide cycle in a lake.
- 18 Explain with an example Shelfords law of tolerance.
- 19 Explain the concept of Edge effect.
- 20 Explain chemical in succession.
- 21 Describe food-web of a pond.
- 22 Write notes on phosphorus cycle.

Turn over

23 Explain energy flow in a land ecosystem.

24 What are the characteristics of a community ?

(7 × 2 = 14 wei

III. Answer any *two* questions. Each question carries 4 weightage :

25 What are the different types of biodiversity ? Give its significance.

26 Give an account of characteristic of a population.

27 Describe the concept of Ecosystem taking any example.

28 What are the methods of measurement of productivity ?

(2 × 4 = 8 wei