Time: Three Hours

(Pages: 2)

Name	***************************************
Reg No	

Maximum: 36 Weightage

THIRD SEMESTER M.Sc. DEGREE EXAMINATION, DECEMBER 2014

(CUCSS)

Environmental Science

ES 3C 10—ENVIRONMENTAL BIOLOGY—III

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

- 1 What is denitrification process?
- 2 What are methanogens?
- 3 Define mineralization.
- 4 What is rhizosphere?
- 5 Name two functions of Golgi complex.
- 6 What is reduction division?
- 7 Define Polyploidy.
- 8 Give two examples of stem cells.
- 9 What is regeneration in animals?
- 10 What is a poikilothermic animal?
- 11 Name two hormones in stress response of animals.
- 12 What is cellular differentiation?
- 13 What is the importance of Adenovirus?
- 14 Define Symbiosis.

 $(14 \times 1 = 14 \text{ weightage})$

- II. Answer any seven questions. Each question carries 2 weightage:
 - 15 Write brief account of physiological functions of mitochondria.
 - 16 What is Genetic code? In what ways it is useful?
 - 17 Discuss briefly the effect of light on animals.
 - 18 What are the impacts of pollutants on terrestrial organisms?
 - 19 Describe the process of sexual reproduction in fungi.
 - 20 Give a brief account of bacteriophages and its significance.
 - 21 Write briefly on the role of microbes in decomposition of organic matter.
 - 22 Describe Photoperiodism with relevant examples.

Turn over

- 23 What are the growth regulation in plants?
- 24 Explain senescnece and programmed cell death.

 $(7 \times 2 = 14 \text{ weig})$

- III. Answer any two questions. Each question carries 4 weightage:
 - 25 Give an account of the distinguishing characteristics and morphology of fungi.
 - 26 Give an account of stress physiology of animals in response to temperature.
 - 27 Explain in detail the mechanism of protein synthesis.
 - 28 Write an account of genetic control of growth.

 $(2 \times 4 = 8 \text{ weig})$