

(Following Roll No. to be filled by candidate)

Roll No.

150431007

B.Tech.
FIRST SEMESTER EXAMINATION 2015-16
EAS105
ENVIRONMENT AND ECOLOGY

Time: 2 Hours**Max. Marks: 50****Note: Attempts all Questions. All Questions carry equal marks.****1. Attempt any four parts of the following: [4x3.5]**

- a. Ignorance with protection of environment will lead to detrimental consequences. How Swaksha Bharat Mission will be affected by environment protection ignorance?
- b. What is balance ecosystem? Describe the role of producer, consumer and decomposers in an ecosystem.
- c. Define term Environmental Impact Assessment. Discuss the different methodology of EIA with the help of flow chart.
- d. Define the term land subsidence. Discuss the impact of mining on environment and human health.
- e. What is food security? Discuss main pillar of food security in India.
- f. Is sustainable development necessary? Justified this statement.

2. Attempt any four parts of the following: [4x3]

- a. Differentiate between deforestation and forest degradation. What are causes and impact of deforestation?
- b. Differentiate between conventional and nonconventional energy resource. Hydrogen as an alternative fuel comments on this statement.
- c. What is biogeochemical cycle? Discuss different carbon pool in carbon cycle.
- d. What is defluoridation? Discuss cause and effect of fluorosis. Write Nalgonda Techniques of fluoride removal from drinking water.
- e. What is solar pond? Discuss different application of solar energy.
- f. What is eutrophication? How it destroyed aquatic ecosystem.

3. Attempt any four parts of the following: [4x3]

- a. What is noise pollution? Describe noise characteristics and its physical and physiological impacts with suitable control measures.

- b. What is population explosion? Write down the logistic curve equation of population growth.
- c. Differentiate between wet and dry acid rain. Discuss the cause, effect and control measures of acid rain.
- d. What is integrated solid waste management? Discuss different steps of municipal solid waste management.
- e. Differentiate between primary air pollutants and secondary air pollutant with suitable example. Write about control measures of particulate matter.
- f. Define term water pollution. Discuss self-purification mechanism of river.

4. Attempt any two parts of the following: [6x2]

- a. Prepare the list of environmental legislations prevailing in India. Discuss various issues involved in proper enforcement of these legislations.
- b. What is NGO? Explain how the initiatives taken by NGO are helpful in creating the public awareness and implementation of environment protection programme.
- c. What are the main objectives of environmental education? Discuss role women education in environment protection.