

# SEMESTER END EXAMINATIONS - JANUARY 2017

Course & Branch : B.E: Common to all branches  
 Subject : Environmental Studies  
 Subject Code : HSS102/202

Semester : I/II  
 Max. Marks : 100  
 Duration : 2 Hrs

## Instructions to the Candidates:

- PART A is compulsory and answer any FIVE questions from PART B.
- Draw sketches wherever necessary.

### PART- A

1. a) The study of relationship between the organisms and their environment is called Ecology (01)
- b) ~~Amazon~~ are the earth's lungs. (01)
- c) Coal, petroleum and natural gas are grouped under non-renewable source of energy. (01)
- d) pollution is an undesirable change in the physical, chemical or biological characteristics of water, air and land. (01)
- e) Flow of energy in ecosystem is uni and flow of material is cyclic directional (01)
- f) A food chain is an energy sequence of links or trophic levels that starts with repeated eating and being eaten. (01)
- g) SO<sub>2</sub> is the major contributor to the acid rain. (01)
- h) The Biomass defined as living matter or its residues which is a perpetual or a renewable source. (01)
- i) The natural sources which includes volcanoes, forest fires and pollens leads to pollution. (01)
- j) UV from the sun can cause a variety of health problems in human, including skin cancers, eye cataracts and reduction in immunity against many diseases. (01)
- k) The Bio sphere is responsible for the grand scale recycling of energy and matter on earth. (01)
- l) Excess concentration of salts in soil is known as Salinity (01)
- m) Both power and manure is provided by Biodiversity (01)
- n) Disposal of solid waste in thin layer alternatively with soil over the earth is known as Sanitary Land fill (01)
- o) The B is a naturally occurring process that aids the heating of the earths surface and atmosphere. (01)
- p) The water act was enacted by Indian Parliament act in the year 1974 (01)
- q) Decline in the quality of soil refers to Soil degradation (01)
- r) Global warming leads to \_\_\_\_\_ (01)
- s) Saturation of soil with water is referred as \_\_\_\_\_. (01)
- t) Wastewater coming out from residential and commercial area is referred as Sewage (01)

**PART - B**

- |    |    |  |     |      |
|----|----|--|-----|------|
| 2. | a) | Describe the term Environment. Describe multi disciplinary nature of environmental studies.                  | CO2 | (08) |
|    | b) | Define Ecology. Explain the structure and functional components of ecosystem.                                | CO2 | (08) |
| 3. | a) | Explain the ill-effects and preventive measures of modern agriculture.                                       | CO3 | (08) |
|    | b) | Write short notes on Water logging and Salinity.   | CO3 | (08) |
| 4. | a) | Define Renewable and non-renewable energy sources. Discuss the differences between them along with examples. | CO3 | (08) |
|    | b) | Explain the step-by-step procedure of conducting EIA along with its objectives.                              | CO3 | (08) |
| 5. | a) | Define Water pollution. Explain any six causes of water pollution.   | CO4 | (08) |
|    | b) | Explain the management of Municipal solid wastes.  | CO4 | (08) |
| 6. | a) | Explain the causes and preventive measures of Soil pollution.  | CO4 | (08) |
|    | b) | Explain the ill-effects of Industries on environment.  | CO4 | (08) |
| 7. | a) | Describe the effects of Housing & Infrastructure on environment.   | CO5 | (08) |
|    | b) | Explain the functions of State Pollution Control Board.  | CO5 | (08) |
| 8. | a) | Explain the salient features of Environmental Protection Act, 1986.  | CO5 | (08) |
|    | b) | Explain the functions of Central Pollution Control Board.  | CO5 | (08) |

\*\*\*\*\*