

FIRST SEMESTER

B.Tech.(GROUP-B)

END SEMESTER EXAMINATION

NOVEMBER-2010

EN-112 ENVIRONMENTAL SCIENCE

Time: 3 Hours

Max. Marks : 70

Note : Answer any **FIVE** questions.
All question carry **EQUAL** marks.
Assume suitable missing data, if any.

- 1[a] Explain renewable & non-renewable source of energy. 7
- ✓ [b] Describe biotic & abiotic components of grassland ecosystem. 7
- 2[a] Define ecosystem & what are the different types of ecosystem. 7
- [b] Depict diagrammatically Nitrogen & Oxygen cycles. 7
- 3[a] Define air pollution. What are the different types / classification of the air pollutant? 7
- [b] Explain the effects of air pollution on vegetation as well as on materials. 7
- 4 Write explanatory notes on (any two): 7+7
- (i) Hazardous solid waste.
 - (ii) Global warming.
 - (iii) Ground water pollution.
- 5[a] Why are some diseases called water borne? Name one water borne disease under each of bacterial, viral & protozoal origin. 7
- [b] Explain the following terms with maximum acceptable limits for public drinking water:
- (i) Turbidity (ii) Hardness

6[a] Explain what do you understand by depletion of ozone layer.

[b] Explain the effect of acid rain.

7[a] Discuss the salient features of the environment (Protection) Act, 1986.

[b] Write detailed note on the following (any two):

(i) Bio-gas

(ii) Geothermal energy

(iii) Chemical characteristics of waste water.

8[a] In a water treatment plant, the pH values of incoming & outgoing water are 7.2 & 8.4 respectively. Assuming a linear variation of pH with time, determine the avg. pH value of water.

[b] What are the effects of noise pollution.