FIRST SEMESTER

## Roll No. Q...... B.Tech. (FROUP-B)

## **END SEMESTER EXAMINATION**

NOV.-DEC.-2011

## EN-112 ENVIRONMENTAL SCIENCE

Time: 3 Hours Maximum Marks: 70 Note: Answer any FIVE questions. Assume suitable missing data, if any. Explain nitrogen cycle with a special reference of microorganisms 1[a] involved in it. [b] Discuss the composition and temperature profile in different layers of atmosphere. 7 2[a] What do you mean by energy flow in an ecosystem? Briefly describe different types of energy flow models. [b] Define ecosystem. What are the salient features of different forest ecosystems? Explain. 7 3[a] What do you mean by water quality? Briefly mention the physico-biochemical characteristics of water used to establish water quality. [b] Define water pollution with special reference to organic matter and dissolved oxygen content. . 7 Enumerate the harmful effects of air pollution on the environment. What do you mean by ozone hole? How does it form and what are its [6] environmental implications? Explain. 7 What are the advantages of non-conventional energy sources over the conventional sources? What do you mean by Biogas generation? What are the factors responsible for good biogas production? Explain.

6[a] What is global warming? How is it different from green house effect?

What are the environmental outcomes of global warming?

(P)	What is acid rain? How does it form and what are the harmful effort of acid rain?	ects 7
7[a] [b]	Define 'Noise'. Classify the different sources of noise and its commethods.  Briefly discuss the methodology followed for municipal solid was management.	7
[a] [b] [c]	Write short note on: Water brone diseases. Ecosystem production. El-Nino.	4 5 5