

Q.5[a] Define Chemical Oxygen Demand (COD) and Total Organic Carbon (TOC) and discuss how they relate to Biochemical Oxygen Demand (BOD). 7

[b] What is Global Warming? Enumerate the causes and effects of global warming. 7

Q.6 [a] What are the different components of environment? Explain their inter-relationship. 7

[b] Explain the biotic and abiotic components in a Pond Ecosystem. 7

Q.7 Write short notes on:

- i. Working principle of Electrostatic Precipitator
- ii. Ozone Hole
- iii. Water borne diseases
- iv. Environment Act

3.5x4

Total No. of Pages 02

Roll No.

FIRST SEMESTER

B.Tech.(All Branches)

END SEMESTER EXAMINATION

NOV-2014

EN-112 Environmental Science

Time: 3:00 Hours

Max. Marks :100

Note : Answer any five questions

Be brief in your explanations and preferably answer in bullet point format instead of paragraphs.

Q.1[a] List the five primary air pollutants commonly released into the atmosphere and their sources. 10

[b] How is biodiversity classified? 4

Q.2[a] With a neat sketch, explain how:

i. Element Nitrogen is recycled in nature

ii. Water is recycled in nature 3.5x2

Q. [b] List and explain the control strategies for SO_x emission. 7

Q.3[a] Define hazardous waste. What is the procedure of hazardous waste management in India? 7

[b] Define "hardness" of water. Note two broad classification of hardness, and discuss the source and impacts of hardness. 7

Q.4[a] Non-conventional sources of energy are environmentally safe. Comment. 7

Q. [b] What is groundwater pollution and list the main sources for the same. 7