

Code No: 53013

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B.Tech II Year I Semester Examinations, November - 2015

ENVIRONMENTAL STUDIES

(Common to ME, ECE, CHEM, ETM, AE, MIE)

Time: 3 hours

Max. Marks: 75

Answer any five questions

All questions carry equal marks

- 1.a) Define the term ecosystem. Explain the structure of ecosystem.
- b) Distinguish between food chain and food web. Give examples of each. [7+8]
- 2.a) Write the benefits and problems associated with dams.
- b) Write about non-conventional sources of energy. [7+8]
- 3.a) Define genetic, species and ecosystem diversity.
- b) Write about the ex-situ measures of conservation of bio-diversity. [8+7]
- 4.a) Define water pollution. What are the impacts of fluorides and nitrates on human health? Give the drinking water quality standards for fluorides and nitrates.
- b) Write the various emissions from automobiles causing pollution and their control measures.
- c) Write short notes on noise pollution. [5+5+5]
- 5.a) Write the causes and consequences of deforestation.
- b) Write the pollutants responsible for ozone depletion. What are the impacts? [7+8]
- 6.a) What is EIA? Write about Adhoc method and Matrix method of EIA.
- b) Write the applications of RS and GIS in groundwater quality assessment studies. [8+7]
7. Write the salient features of the following:
 - a) Bio-medical waste management and handling rules.
 - b) Environment Protection Act. [8+7]
- 8 "Only if we take care of nature, nature will take care of us" Explain. [15]

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