

Code No: 54004**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD****B. Tech II Year II Semester Examinations, April - 2018****ENVIRONMENTAL STUDIES****(Common to CE, CSE, EIE, IT, MMT, AME, PTM)****Time: 3 hours****Max. Marks: 75****Answer any five questions
All questions carry equal marks**

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- 1.a) What are ecological pyramids? Why are energy pyramids always upright?
b) What do you mean by life sustenance cycles? Briefly explain their significance in the environmental protection? [7+8]
- 2.a) "Man belongs to environment but environment doesn't belong to man", Justify the statement.
b) What are the causes for over utilization of natural resources? Briefly explain the role of an individual in conservation of our natural resources. [8+7]
- 3.a) Briefly explain the significance of biodiversity with suitable examples.
b) Differentiate between the Insitu and Exsitu conservation methods? What do you mean by Project Tiger? Mention its significance in ecological balance. [7+8]
- 4.a) Define air pollution. Discuss the working principle of an ESP also mention its advantages and disadvantages.
b) What are the causes, effects and control measures of water pollution? Emphasize how industries and modern agricultural practices have adverse effects on the water pollution. [7+8]
- 5.a) What are greenhouse gases? Discuss the adverse effects of global warming and suggest ways which can be adopted to mitigate.
b) Define climate change. State the causes for climate change and their impacts on human and environment. [7+8]
- 6.a) What is Environmental Impact assessment? How it can be useful as a planning tool for Environmental Protection in various developmental projects?
b) What are the critical assessment criteria in any EIA methodology? [8+7]
- 7.a) Discuss about the main objectives of "The Air Act -1981". Briefly explain what should be the role of PCB in strict enforcement of act.
b) What is significance of Forest Conservation Act? What are the penalties and punishment for violating the provisions of the forest act with respect to deforestation and illegal trade? [7+8]
- 8.a) Define sustainable development. Discuss the strategies that we need to adopt so as to achieve the goals of sustainable development.
b) What do you mean by the term crazy consumerism? Discuss how globalization has negative impacts on the local people and their environment. [8+7]