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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B.Tech II Year II Semester Examinations, May-2015

ENVIRONMENTAL STUDIES

(Common to CE, ECE, CSE, EIE, BME, IT, MCT, MMT, AME, PTE, CEE)

Time: 3 Hours Max. Marks: 75

Note: This question paper contains two parts A and B.

Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B Consists of 5 Units. Answer any on full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

(3)

PART-A

		(25 Marks)
1.a)	Explain any two types of components of Ecosystem?	[2M]
b)	What is significance of food web?	[3M]
c)	What are the benefits and problems of construction of dams?	[2M]
d)	Write a note on land degradation?	[3M]
e)	Define Ex-situ conservation?	[2M]
f)	Explain the concept of Bio-diversity and its legislation in India?	[3M]
g)	Write the strategies for abatement of water pollution	[2M]
h)	Write note on global climate change?	[3M]
i)	Write a short note on the Environmental Ethics?	[2M]
j)	What are the advantages of Green building?	[3M]

PART-B

(50 Marks)

- 2.a) Explain the functions of components of ecosystem?
 - b) Explain the terms "Food Chain" and "Food Web" with suitable examples?
 - c) Describe the biotic and abiotic components of an ecosystem? [3+4+3]

OR

- 3.a) What are Bio-geochemical cycles?
 - b) What are the different tropic levels of organisms in an ecosystem?
 - c) What is an ecological pyramids?

[3+4+3]

- 4.a) Discuss the causes and consequences of deforestation?
- b) Write short notes on land resources?
- c) Explain the Environmental effects of extraction and using of mineral resources.

[3+3+4]

OR

- 5.a) Discuss the role of alternate energy source in meeting the growing energy needs.
 - b) Write short notes on over utilization of surface and ground water?
 - c) Briefly explain the control of the floods and droughts? [4+3+3]
- 6.a) Explain the Species, Biodiversity and its significance?
 - b) How do you conserve biodiversity?
 - c) Explain why India is called a Mega Diversity Nation? [3+4+3]



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- 7.a) Explain the value of Biodiversity?
 - b) Describe the endangered and endemic species in India and suggest methods to protect them?
 - c) Write short notes on "Hot spots of Biodiversity"?

[3+4+3]

- 8.a) Write an essay on solid waste management?
 - b) Explain the role of Individuals in the protection of the environment?
 - c) Explain the phenomenon of particulate pollution of air. How is it prevented? [3+3+4]

OR

- 9.a) How is Noise pollution controlled?
 - b) How is urban industrial wastes are disposed?
 - c) Write an essay on ozone layer depletion?

[3+4+3]

- 10.a) Discuss the salient features of Forest conservation Act?
 - b) Explain the Environmental impacts of ever growing population in India?
 - c) Write an essay on Environmental impact assessments? [3+4+3]

OR

- 11.a) Explain the concept of Green building?
 - b) Briefly explain the wild life conservation Act?
 - c) Brief Note on environmental protection Acts?

[3+4+3]

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