Code No: 113AF

## III JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech II Year I Semester Examinations, March - 2017

## ENVIRONMENTAL STUDIES (Common to ME, AE, MIE, AGE, MSNT)

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 one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

## PART-A

5.2				(25 Marks)					
1.a)	[2]								
b)	Why are our energy needs growing	?		[3]					
c)	What is a biodiversity hotspot?			[2]					
d)	What is Kyoto protocol?			[3]					
e)	. Write about the differences between	n consumerism and	crazy consumerism.	[2]					
f).	'Pyramids of energy are always upr	ight' Why?		::: <u> </u> [3]					
g)	What are the problems associated	d with over utiliz	ation of ground wa	ater in coastal					
	regions?			[2]					
h)	What is ecosystem diversity?			[3]					
i)	What is the purpose of waste water	primary treatment?		[2]					
j) . What are the different disposal methods allowed for MSW according to MSW rules?									
				::-:[:3]					
PART-B									
				(50 Marks)					
2.a)	What is the difference between bioa	accumulation and b	iomagnifications?						

- What is the difference between bioaccumulation and biomagnifications? b) Describe about the carbon cycle. [5+5]
- OR
- 3.a) Compare the pyramid of biomass between a tree ecosystem and a pond ecosystem:
- b) Why are the biogeochemical cycles important? [5+5]
- 4.a) Why is forest cover very important and what are its uses?
- List the problems associated with deforestation. b)
- 5.a) Give the salient features of National Biodiversity Act. b) Discuss about ex situ and insitu strategies for biodiversity conservation. [5+5]
- 6.a) Discuss about the threats to the biodiversity.
- What are the consumptive uses of biodiversity? b)
- 7.a)How does salt affect soils forms?
  - b) What are the places identified as potential wind energy harvesting sites in India? [5+5]

	8.a): ::::What	is climate change are the impacts of		appen?: ::: and how can we OR	mitigate the pro	blem? <sup>[5+5]</sup>	
	<ul><li>9.a) How does deforestation lead to desertification?</li><li>b) Describe the low carbon lifestyle.</li></ul>					[5+5]	444 44
1	10.a): How can we acquire the baseline data for carrying out EIA?  B) Mention the MSW management and handling rules.  OR  11.a) Mention the salient features of Forest Act.  b) Give the concepts of green building.						100 M
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