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# Question Paper Code: P 1225

## B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2009.

Third Semester

Civil Engineering

#### CY 1201 - ENVIRONMENTAL SCIENCE AND ENGINEERING

(Regulation 2004)

(Common to Third Semester – all branches except Biomedical Engineering,
Petroleum Engineering, Information Technology, Food Technology and
(Also common to Second Semester – Computer Science and Engineering, ECE,
Biomedical Engineering and Fifth Semester – Food Technology)
(Also common to B.E. (Part-Time) – First Semester – Civil Engineering, EEE, ECE
and Computer Science and Engineering and Second Semester –
Mechanical Engineering – Regulation 2005)

Time: Three hours

Maximum: 100 marks

### Answer AJ L (ves ions.

#### PART A — $(10 \times 2 = 20 \text{ marks})$

- 1. What are perpetual and renewable resources? Give examples.
- 2. Mention any four harmful he men impact on coastal zones.
- 3. What are the main kino of or ganisms in aquatic life zones?
- 4. List four potential channe health effects of air pollution.
- 5. Define the word de, and as it applies to water.
- 6. Distinguish between continuous, intermittent and impulsive noise.
- 7. What are by genchemical cycles?
- 8. Where so post of the worlds biodiversity found?
- 9. What to you meant by the term indicator species?
- 10. What is the difference between exponential and logistic population growth?

# PART B — $(5 \times 16 = 80 \text{ marks})$

11.	(a)	(i)	What are the environmental impacts of extraction, processing using mineral resourses?	and (8)
		(ii)	What is soil erosion? Mention the various methods employe reduce it.	d to (8)
			Or	
	(b)	(i)	What is descrification? What are its major causes consequences? How can it be controlled?	and (8)
		(ii)	What is geothermal energy? Describe the types of geother reservoirs. Discuss the advantages and disadvantages of u geothermal energy.	
12.	(a)	(i)	How is water cycled in the biosphere? Explain how do hu activities affect the water cycle?	man (8)
		(ii)	Discuss the major types of deserts, gross kin is and forests.	(8)
			Or	
	(b)	(i)	Describe the major parts of the earth a life support system.	(8)
		(ii)	Summarize the major threats to biodiversity.	(8)
13.	(a)	(i)	What are the major biological components of ecosystem? Experience activities.	olain (8)
		(ii)	Describe the formation and effects of acid rain.	(8)
	(b)	(i)	What is phot an miral smog? Discuss the formation and effectit.	ts of (8)
		(ii)	What do you understand by green house effect? Explain its important	acts. (8)
14.	(a)	(i)	Discuss the various sources and effects of noise pollution.	(8)
		(ii)	Two lain the role of chlorofluorocarbons in ozone layer deple Discuss the impact of ozone layer depletion.	tion. (8)
		2	Or	
	(b)	(1)	Write a note on water conservation and rain water harvesting.	(8)
		(ii)	Explain the causes and effects of urban and industrial wastes.	(8)
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15. (a) (i) Discuss briefly the various aspects of disaster management.

(8)

 Illustrate the role of information technology in environment and human health.

Or

(b) (i) What are the benefits and harmful effects of rapid population decline? Discuss. (8)

(ii) Explain the issues involved in the enforcement of environmental legislation. (8)