(Following Paper ID and Roll No.	to be filled in your Answer Book
PAPER ID: 3101 Roll No.	

B. Tech.

(Semester-I) Theory Examination 2011-12 ENVIRONMENT & ECOLOGY

Time: 2 Hours] [Total Marks: 50

Note: The question paper contains three Sections, Section-A, Section-B and Section-C with the weightage of 10, 10 and 30 marks respectively. Follow the instructions as given in each Section.

Section-A

This Section contains 10 questions of fill in the blanks and true and false type questions. Attempt all parts of this Section.

1. Fill in the following blanks with suitable words:

1×6=6

(a) With the increasing height, air temperature drops uniformly with altitude, this phenomenon is commonly called _____.

erie. Arrika	(b)	The study of reciprocal relationship between
		organisms and environment is called
	(c)	Eutrophication of lakes is caused the
		excessive presence of _eachand
	(d)	Chipko movement in Tihri Garhwal region
		was initiated by
٠.	(e)	PAN is formed by the concentration of
		oxides of nitrogen and in presence
		of sun light.
	(f)	Concentration of up to ppm of
		ozone has almost negligible effect on human
		health.
2.	Indi	cate True and False for the following
	state	ments: $1\times4=4$
	(a)	Sludge left over in the biogas plant cannot
		be used as a fertilizer. (True/False)
	(b)	The Wildlife (Protection) Act, 1972 is
		adopted all over India including Jammu &
		Kashmir. (True/False)
	(c)	Solid waste materials degraded by micro-
ម្មាស់ មិន្		organisms are called non-biodegradable.
,	k-, +239°	(True/False)
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(d) Mining of Uranium exposes local people to radioactive hazards. (True/False)

Section-B

- 3. Attempt any five parts of the following: $2 \times 5 = 10$
 - (a) Classify ecosystem on the basis of energy sources.
 - (b) Briefly discuss the impacts of urbanization on environment.
 - (c) Discuss briefly the water-borne diseases.
 - (d) Define hydrological cycle.
 - (e) Write a short note on nuclear energy.
 - (f) Discuss the effects of soil pollution which affect the soil productivity.
 - (g) What is meant by 'Population Stabilization'?
 - (h) Briefly discuss the account of the importance of environmental studies.

Section-C

- 4. Attempt any five parts of the following: $6 \times 5 = 30$
 - (a) Classify the atmosphere on the basis of temperature variation. State the main activities taking place in each of them.

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- (b) State the chief characteristic features of a desert ecosystem and describe the structure and their functions.
- (c) What do you mean by waterlogging and salinization? What are their causes and how do they influence the agriculture yields?

 Also suggest the measures to minimize them.
 - (d) Discuss in detail the major environment impacts of mineral extraction.
 - (e) Enumerate the application of solar energy in modern days. Explain the uses of solar energy for space heating of buildings.
 - (f) What do you understand by the term thermal pollution? Discuss the various effects and control measures of thermal pollution.
 - (g) What is ozone hole? What are the causes of ozone hole formation? Discuss the effects of ozone layer depletion and its remedial measures.
 - (h) How do you define the pollution as per Water Act, 1974? Also write the salient features of this Act.

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