Set No. 1

I B.Tech I Semester Supplementary Examinations, Feb/Mar 2014 ENVIRONMENTAL STUDIES

(Common to Mechanical Engineering, Electronics & Communication Engineering, Chemical Engineering, Information Technology, Electronics & Computer Engineering, Mining and Petroliem Technology)

Time: 3 hours

Max Marks: 75

# Answer any FIVE Questions All Questions carry equal marks

\*\*\*\*\*

- 1. Critically discuss what are the important objectives and the guiding principles of environmental studies? [15]
- 2. Discuss the reasons for land degradation and suggest steps to control it and explain what is Soil management, Shifting cultivation, Desertification and Man induced landslides. [15]
- 3. (a) Define ecosystem? and types of ecosystems in the nature.
  - (b) What are the general characteristics of an ecosystem? [8+7]
- 4. (a) Name a few birds and their contribution to the environment?
  - (b) What are the ecological services rendered by forests? Cite the examples of aesthetic, recreational, economic, historical, cultural and religious values of forest around your place. [5+10]
- 5. (a) How does marine pollution occur?
  - (b) What are the International activities to control marine pollution? [8+7]
- 6. (a) What are the powers provided to the central Government by the Environmental Protection Act, 1986?
  - (b) Write short note on environmental victims and their rehabilitation? [8+7]
- 7. (a) what is the Maximum carrying capacity and Exponential growth of population? Explain?
  - (b) what is your role for control of diseases in your local region? [8+7]
- 8. (a) Explain the types of components that are present in the solid waste material.
  - (b) What are the types of observations you find when you visited the polluted and non polluted zone. [8+7]

\*\*\*\*

Set No. 2

I B.Tech I Semester Supplementary Examinations, Feb/Mar 2014 ENVIRONMENTAL STUDIES (Common to Mechanical Engineering, Electronics & Communication Engineering, Chemical Engineering, Information Technology, Electronics & Computer Engineering, Mining and Petroliem Technology) Time: 3 hours Max Marks: 75

# Answer any FIVE Questions All Questions carry equal marks

\*\*\*\*\*

- 1. Describe the guiding principles of environmental education? Give an account of formal and non-formal environmental education being imparted in India? [15]
- 2. (a) Is it necessary to construct multipurpose dams, if not suggest alternatives and discuss the impact of dams on forests and tribal people?
  - (b) Discuss any two case studies of people's movement against construction of dams. [8+7]
- 3. (a) What roles do autotrophs and heterotrophs play in the ecosystem?
  - (b) Explain the process of a succession in a newly formed pond ecosystem. [8+7]
- 4. (a) What are the major biogeographical regions in India.
  - (b) Enumerate the biosphere reserves of India. [8+7]
- 5. (a) How to control thermal pollution in Industries?
  - (b) Define noise pollution? How noise pollution can be controlled? [7+8]
- 6. (a) Discuss the salient features of Wild life (protection)Act,1972
  - (b) Discuss the salient features of Forest (conservation) Act, 1980 [8+7]
- 7. (a) What do you mean by "Slum"? What kind of shelter does it provide?
  - (b) What are the objectives of UDHR by the United Nations? [8+7]
- 8. (a) Explain the types of components which are present in the solid waste material.
  - (b) What are the types of observations you find when you visited a polluted and non polluted zone. [8+7]

\*\*\*\*

Code No: R10106/R10

Set No. 3

I B.Tech I Semester Supplementary Examinations, Feb/Mar 2014 ENVIRONMENTAL STUDIES ( Common to Mechanical Engineering, Electronics & Communication Engineering, Chemical Engineering, Information Technology, Electronics & Computer Engineering, Mining and Petroliem Technology)

Time: 3 hours

### Max Marks: 75

# Answer any FIVE Questions All Questions carry equal marks

#### \*\*\*\*\*

- 1. Write a detailed note on the various governmental institutions and organizations in the field of public awareness and preservation of natural assets? [15]
- 2. Explain the use of solar energy for the purpose of Solar water heating, Solar cooking, Solar electric power generation, Solar green houses and Solar drying of agriculture animal products. [15]

### 3. Write note on:

- (a) Nitrogen cycle
- (b) Carbon cycle
- (c) Hydrological cycle [5+5+5]
- 4. (a) Explain how the study of biodiversity is beneficial to human life.
  - (b) Explain about consumptive value of biodiversity. [8+7]
- 5. (a) How does degradation of pesticides take place in soil?
  - (b) What are the effects of using synthetic pesticides? [8+7]
- 6. (a) Do you think moral values prevent pollution in the environment? Explain your view?
  - (b) Define climate change? Explain the sources and effects of Global warming?

[8+7]

- 7. Write notes on the fallowing social security measures
  - (a) Life insurance
  - (b) Public Provident Fund
  - (c) Categorical benefits
  - (d) Employee's provident fund [5+5+5]
- 8. (a) What are the types forests in India? Define them and give proper examples.

(b) What is the role of river water in preparing the EIA report for an Industry? [8+7]

\*\*\*\*

		ENVIRONMENTAL STUDIES					
( Common to Mechanical Engineering, Electronics & Communication Engineering, Chemical Engineering, Information Technology, Electronics & Computer Engineering, Mining and Petroliem Technology)							
				Γim	e: 3	hours Max Marks	s: 75
						Answer any FIVE Questions	
		All Questions carry equal marks					
		* * * *					
1.	(a)	Describe the various conservation practices followed in the society ar individuals for preservation of environmental assets?	nd by				
	(b)	Explain about "Urjagram and Model villages".	[8+7]				
2.	(a)	Explain selective felling and what are the negative impacts of timber ex- tion? Explain what measures need to be taken for conserving forest wea					
	(b)	"Forests act as factories of soils and often called as Earth lungs". Explai statement.	n the [8+7]				
3.	(a)	What are decomposers? Explain their role in the ecosystem.					
	(b)	Discuss the major feature of a stream (river) that differs from that of a	lake. [7+8]				
4.	(a)	Explain about In-situ conservation of biodiversity.					
	(b)	What is the medicinal value of biodiversity?	[8+7]				
5.	(a)	How is liquid waste managed?					
	(b)	How municipal waste is handled in Indian cities and towns?	[8+7]				
6.	(a)	What are the objectives of Environmental Impact Assessment(EIA)?					
	(b)	write short notes on					

I B.Tech I Semester Supplementary Examinations, Feb/Mar 2014

Set No. 4

[8+7]

(i)Polluter pays principle(PPP)? (ii)Carbon Trading

### 7. Write the following

- (a) occupational health hazards
- (b) water born diseases
- [5+5+5](c) Air born diseases
- 8. (a) What are the types of farming carried out by tribal culture and explain the effects of such farming on mountains.
  - (b) What are differences you observe between the Eco Tourism Park and normal [8+7]amusement park.

\*\*\*\*

# 1 of 1