

B.Tech II Year II Semester (R13) Supplementary Examinations December 2017

ENVIRONMENTAL SCIENCE

(Common to CE, ME, ECE & EIE)

Time: 3 hours

Max. Marks: 70

PART – A
(Compulsory Question)

1 Answer the following: (10 X 02 = 20 Marks)

- Give a brief account on causes for land degradation.
- Pyramid of energy is always upright. Why?
- Define food chain and food web.
- Match the following.

1]. Gully soil erosion	a) West Bengal, Assam, Kerala
2]. SNG (Synthetic Natural Gas)	b) Andhra Pradesh, Karnataka, Maharashtra
3]. Krishna Water Dispute	c) Methane
4]. LPG	d) Climatic soil erosion
	e) Biotic soil erosion
	f) Butane
	g) Mixture of CO ₂ and CO

- How noise pollution can be minimized in today's society?
- Write a note on Bhopal gas tragedy.
- Suggest any two methods that can mitigate the earthquake.
- What are the steps should be taken for sustainable living of humans on this earth?
- Explain any two best practices for conservation of water.
- Define zero population growth and give any four parameters for analyzing population growth.

PART – B

(Answer all five units, 5 X 10 = 50 Marks)

UNIT – I

- What are the major causes of deforestation?
 - Discuss water conflict in India with the help of case study.

OR

- List out and explain any two renewable energy sources which could serve as a solution for future energy needs.

UNIT – II

- Explain pros and cons of food chain and food web.
 - Explain various steps involved in ecological succession.

OR

- What are current threats to biodiversity and suggest methods to conserve the same?

UNIT – III

- Write a brief account on:

- Cyclone and landslides.
- Montreal protocol and carbon sequestration.

OR

- Explain the treatment process which removes about 90% of the biodegradable materials present in water.

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UNIT – IV

- 8 (a) Explain the “Water (Prevention and Control of Pollution) Act”.
(b) Describe the function of pollution control board in regulating industries.

OR

- 9 Give detailed pros and cons of construction of big dams by taking any one of the ongoing projects in India.

UNIT – V

- 10 (a) Describe connection between the value education and its impact on environment.
(b) Discuss significant points that can prevent and control HIV and AIDS.

OR

- 11 How does information technology can help in solving environmental problems?
