

(Please write your Exam Roll No.)

Exam Roll No.

END TERM EXAMINATION

SECOND SEMESTER [B.TECH] MAY-JUNE- 2018

Paper Code: ETEN-114

Subject: Environmental Studies

[BATCH 2013 ONWARDS]

Time: 3 Hours

Maximum Marks: 75

Note: Attempt all questions as directed. Internal Choice is indicated.

- Q1 Explain **any five** with relevant case studies and examples:- (5x5=25)
- (a) Ecological Succession
 - (b) CO₂ Sequestration
 - (c) Water logging and salinity
 - (d) Atom Economy
 - (e) Biomagnification
 - (f) Poly lactic acid
 - (g) Nuclear Accidents and Holocaust
- Q2 (a) What is the need for studying environmental issues?
(b) Explain multidisciplinary nature of environmental studies.
(c) Describe formal and informal environmental education. (3,3.5,6)
- OR**
- Q3 (a) What is Biodiversity?
(b) Justify India as mega diversity nation.
(c) Explain:-
(i) α , β and γ Biodiversity
(ii) Rare, endangered and threatened species (RET)
(iii) In-situ and Ex-situ conservation (2.5,4,6)
- Q4 (a) Describe benefits and problems associated with dams.
(b) What can you suggest to cope up with the global and local environmental problems respectively?
(c) Explain following methods of extraction of ores:-
(i) Surface mining
(ii) Subsurface mining (4.5,4,4)
- OR**
- Q5 (a) What is geothermal energy? Discuss its merits and demerits.
(b) What are the different types of energies which can be derived from ocean?
(c) Distinguish between under nutrition and malnutrition. (4,4.5,4)
- Q6 (a) Describe basic principles of green chemistry.
(b) Explain two methods of green synthesis. (8.5,4)
- OR**
- Q7 Explain:-
(a) LD, TD and ED with suitable example and graph.
(b) Arsenic toxicity (Sources, Health and biochemical effects)
(c) Lead toxicity (Sources, Health and biochemical effects)
(d) Bioremediation (3,3,3,3.5)
- Q8 (a) What are the types of disasters? Describe them.
(b) Identify three major mitigation majors to reduce earth quake risk.
(c) Identify major types of landslides. Explain the causes. (4.5,4,4)
- OR**
- Q9 (a) Discuss the concept of sustainable development.
(b) Explain the factors which determine population growth for a given geographical area.
(c) Write a note on consumerism and waste. (4,4.5,4)
