



Reg. No. :

Name :

**Seventh Semester B.Tech. Degree Examination, October 2014
(2008 Scheme)**

08.704 Elective - III (b) ENVIRONMENTAL ENGINEERING (E)

Time : 3 Hours

Max. Marks : 100

PART – A

I. Answer **all** questions.

- a) Define the term industrial ecology.
- b) Write a short on legal and ethical concerns.
- c) Differentiate between Light and radio emissions.
- d) Explain on approaches on design for recycling.
- e) Discuss on status of energy resources.
- f) What is meant by sustainable engineering in developing countries ?
- g) Write a short note on Trade secrets.
- h) What is meant by environmental responsibility ?
- i) Explain on software indemnity.
- j) Explain on patents and copyrights.

(10×4=40 Marks)

PART – B

- II. Write short notes on :
- a) History patterns in Technological evolution
 - b) Life cycle assessment

OR

- Write short notes on :
- a) Sustainable Engineering
 - b) Contemporaneous and Forward Thinking.

- III. Write short notes on :
- a) Water foot print
 - b) Energy efficiency in product design

OR

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Write short notes on : a) Eco-Engineering

b) Mineral resources scarcity.

IV. Write short notes on : a) Responsibilities of the Citizen Engineer

b) Employment contracts and IP ownership.

OR

Write short notes on : a) Externally driven challenges in Engineering

b) Open source software.

(3×20=60 Marks)
