



Reg. No. :

Name :

Seventh Semester B.Tech. Degree Examination, May 2015
(2008 Scheme)
08.704 : Elective – III (b) : ENVIRONMENTAL ENGINEERING (E)

Time : 3 Hours

Max. Marks : 100

PART – A

Answer **all** questions.



1. Define the basics of technological evolution.
 2. Explain the concept of greening in Engineering.
 3. What are the different pollution prevention techniques for sustainability ?
 4. What are the different sources of energy ?
 5. Write a note on GHG emissions.
 6. What are the different methods used for the assessment of water quality ?
 7. What are the different classification of water resources ?
 8. Explain the perspectives of the Engineering transformation.
 9. What are the fundamentals of Intellectual property law ?
 10. What are the formalities for open source softwares ?
- (10×4=40 Marks)**

**PART – B**

Answer **one full** question from **each** Module.

Module – I

11. a) Explain the social dimensions of industrial ecology and sustainable engineering within the society. 10
b) Describe the legal and ethical concerns in economics and industrial ecology. 10
12. a) Explain industrial product development design for recycling. 15
b) What are the guidelines for ecodesign of products ? 5

Module – II

13. Explain 'Energy Efficiency' in product design giving suitable examples. 20
14. Write short notes on :
a) Carbon Neutrality.
b) Eco Engineering.
c) Green washing and green noise. 20

Module – III

15. a) Describe the Environmental Responsibility related with Intellectual Property Law. 15
b) Explain contributor agreements related with software licenses. 5
16. a) How will you protect your IP in Emerging Markets. 10
b) Explain the externally driven changes in Engineering. 10