

## Final Assessment Test - November 2016

Course: CHY1002 - Environmental Sciences

Class NBR(s): 7338 / 7346 / 7354 / 7362 / 7447 / 7457 / 7490 / 8685 / 8775

Slot: G2

Time: Three Hours

Max. Marks: 100

### PART – A (10 X 4 = 40 Marks)

Answer ALL Questions

1. Define IPAT model and discuss the outcome obtained for developing and developed countries by applying IPAT equation. *Defn & Result both*
2. Outline the Structure of Forest Ecosystem based on Abiotic and biotic components with examples.
3. Brief about any four values of Biodiversity.
4. How a regional or local biodiversity can be quantified?
5. Explain the term (i) Carcinogens and (ii) Teratogens with examples.
6. Define the concept and importance of water foot print.
7. Explain the methods available to generate electricity using solar energy.
8. What is your expert opinion on the possible future energy paths for the environmentally pollution free world.
9. How does sustainable development make economic sense for society?
10. How can we become more environmentally literate?

### PART – B (6 X 10 = 60 Marks)

Answer any SIX Questions

11. Discuss in detail with diagram about earth's natural cycles such as nitrogen, carbon and water.
12. What are genetically modified GM foods? Explain the pros and cons of GMF with a suitable example.
13. Discuss in detail about the carbon sequestration methods.
14. Write notes on (i) Tidal energy (ii) Ocean thermal energy (iii) Wind energy
15. a) Narrate on the provisions given in the forest conservation act 1980.  
b) Write about the roles of Central Pollution Control Boards.
16. How can age-structure pyramids serve as useful tools for predicting population growth trends of nation? Explain with examples.
17. Explain the causes and consequences of green house gas effect. Also explain how emission trading, clean development mechanism and joint implementation mechanism help the countries to control the green house gas emission.
18. Describe the various issues and measures for women and child welfare in India.

