

END SEMESTER EXAMINATION

MAY-2012

EN-112 ENVIRONMENTAL SCIENCE - 60L

Time: 3:00 Hours

Max. Marks : 70

Note : Answer any FIVE questions.  
Assume suitable missing data, if any.

✓ Define atmosphere. Briefly explain the chemical composition and vertical temperature profile of atmosphere. What is the relevance of different layers of atmosphere? Explain. 14

✓ 2 What are biogeochemical cycles? What is the environmental significance of nutrient cycling? Briefly explain the nitrogen cycling with a mention of nitrification and denitrification and the role of microorganisms involved. 14

✓ 2 What is an ecosystem? Explain the structural and functional characteristics of an ecosystem. Briefly explain the types of forest ecosystem with respect to geographical classification. 14

4 Briefly explain the sources, effects and control of gaseous and particulate air pollutants. Also mention the ambient air quality standards prescribed in India. 14

✓ Enumerate the physical, chemical and biological characteristics of water used to establish its quality for drinking with a mention of standards prescribed for each parameter. 14

6 Differentiate between conventional and non-conventional sources of energy. What are the environmental merits and demerits of solar energy? 14

7 Discuss the methodology followed for municipal solid waste treatment and management. 14