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MANIPAL INSTITUTE OF TECHNOLOGY

MANIPAL

A Constituent Institution of Manipal University

I SEMESTER B.TECH. (Department of Civil Engineering)

MAKE - UP EXAMINATIONS – Jan 2018

Subject: Environmental Studies [CIE 1002]

REVISED CREDIT SYSTEM

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Time: 3 Hours

MAX. MARKS: 50

Instructions to Candidates:

- ❖ Answer **ALL** the questions.
- ❖ Draw figures wherever necessary

1A.	What are the goals of green technology (Any four)?	02	CO10
1B.	Explain Hydrological cycle and its processes with a help of a neat diagram.	04	CO2
1C.	Write a short note on : (i) Food resources (ii) Biomass energy	04	CO5
2A.	Briefly explain the four step integrated approach in practicing water shed management. Write a short on the Y-shaped energy flow model.	04	CO9/CO3
2B.	Explain pond ecosystem with the help of a neat sketch.	03	CO3
2C.	Write a short note on the different types of plate boundaries.	03	CO1
3A.	What is the need for an integrated protected area system (IPAS)?	02	CO4
3B.	Outline any four adverse effects of acid rain. Write a short note on energy efficient buildings.	04	CO6/CO10
3C.	What is a Biosphere reserve? Briefly explain the main functions of a biosphere reserve.	04	CO4
4A.	With the help of a neat sketch explain waste Water treatment plant layout.	04	CO6
4B.	Briefly explain the methods of disposing nuclear wastes. Explain the role of microorganisms in decomposing matter.	04	CO6
4C.	Write a short note on the classification of pollutants.	02	CO6
5A.	What are the aims of disaster management? Write a note on disaster preparedness.	03	CO8
5B.	Write a short note on : (i) BOD & COD (ii) Aerobic & Anaerobic digestion	04	CO6
5C.	Mention any six powers and functions of Pollution control boards.	03	CO7