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MANIPAL INSTITUTE OF TECHNOLOGY

MANIPAL

A Constituent Institution of Manipal University

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

END SEMESTER EXAMINATIONS – April 2017

Subject: Environmental Studies [CIE 1002]

REVISED CREDIT SYSTEM

(27/ 04/ 2017)

Time: 3 Hours

MAX. MARKS: 50

Instructions to Candidates:

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

1A.	Write a note on earth's evolution.	03	CO1
1B.	Explain Carbon cycle with a neat diagram.	03	CO2
1C.	Write a short note on : (i) Fuel cells (ii) Ecobalance	04	CO6/CO1
2A.	Define ecosystem and describe its components with suitable examples.	04	CO3
2B.	Explain the different components of a river valley project with a neat sketch.	03	CO5
2C.	With the help of a neat sketch explain Y – shaped energy flow model.	03	CO3
3A.	Explain any six factors affecting bio-diversity.	03	CO4
3B.	Define temperature inversion. What are the possible remedies to curb urbanization?	04	CO10
3C.	How does biotechnology help in conserving biodiversity?	03	CO4
4A.	With the help of a neat sketch explain the working principle of Electrostatic precipitator.	04	CO6
4B.	What are the characteristics of Solid wastes?	03	CO6
4C.	Explain the utility of a septic tank with a neat sketch.	03	CO6
5A.	Advanced countries are contributing more of CO ₂ , CFC's, SO ₂ , CH ₄ , NO ₂ . Explain.	03	CO6
5B.	Write a short note on (i) EIA (ii) Disaster management	04	CO7/CO8
5C.	How is it possible to quantify 'sustainable development'?	03	CO1