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**MANIPAL INSTITUTE OF TECHNOLOGY**  
**MANIPAL**

*A Constituent Institution of Manipal University*

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

**END SEMESTER EXAMINATIONS – Nov/Dec 2017**

**Subject: Environmental Studies [CIE 1002]**

**REVISED CREDIT SYSTEM**

**( / / 2017)**

Time: 3 Hours

MAX. MARKS: 50

**Instructions to Candidates:**

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

<b>1A.</b>	Briefly explain the different factors controlling soil formation.	<b>04</b>	<b>CO5</b>
<b>1B.</b>	With the help of a neat sketch explain the structure of an atmosphere.	<b>04</b>	<b>CO1</b>
<b>1C.</b>	Explain the meaning of 'ecobalance'.	<b>02</b>	<b>CO1</b>
<b>2A.</b>	Write a short note on : (i) Interlinking of Indian rivers (ii) Wind energy	<b>04</b>	<b>CO9/CO5</b>
<b>2B.</b>	Explain the two types of food chain with suitable examples.	<b>04</b>	<b>CO3</b>
<b>2C.</b>	What are the methods available for minimizing water logging conditions?	<b>02</b>	<b>CO5</b>
<b>3A.</b>	Explain any six processes of ecological succession.	<b>03</b>	<b>CO3</b>
<b>3B.</b>	What are the characteristics of Biomes?	<b>03</b>	<b>CO3</b>
<b>3C.</b>	Define alpha diversity. Write a short note on the value of Biodiversity.	<b>04</b>	<b>CO4</b>
<b>4A.</b>	With the help of a neat sketch explain the working principle of high volume air sampler.	<b>03</b>	<b>CO6</b>
<b>4B.</b>	Explain some of the main processes by which gaseous emissions are purified.	<b>03</b>	<b>CO6</b>
<b>4C.</b>	Write a short note on : (i) Coagulation (ii) Activated sludge process	<b>04</b>	<b>CO6</b>
<b>5A.</b>	What are the causes and harmful effects of Ozone layer depletion?	<b>03</b>	<b>CO10</b>
<b>5B.</b>	What are the benefits of Clean technology and which are the areas where it can be practiced?	<b>03</b>	<b>CO10</b>
<b>5C.</b>	Explain the eight step process involved in Preparing an EIA report.	<b>04</b>	<b>CO7</b>