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

*A Constituent Institution of Manipal University*

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

**MAKE – UP EXAMINATIONS, JUNE/JULY 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>	What is environmental stress? Mention few adverse effects of green revolution.	<b>04</b>	<b>CO1/CO10</b>
<b>1B.</b>	Briefly discuss on the utilization of solar energy as an alternative source of energy.	<b>03</b>	<b>CO5</b>
<b>1C.</b>	Explain the different types of ecological pyramids with suitable examples.	<b>03</b>	<b>CO3</b>
<b>2A.</b>	Define a Food chain. What are the important biotic components of an ocean ecosystem?	<b>04</b>	<b>CO3</b>
<b>2B</b>	Write a short note on Biodiversity hotspots.	<b>03</b>	<b>CO4</b>
<b>2C</b>	Explain the different composition of Biodiversity.	<b>03</b>	<b>CO4</b>
<b>3A.</b>	Mention some of the measures to control noise pollution (any six).	<b>03</b>	<b>CO6</b>
<b>3B.</b>	Explain the different types of aeration units with a neat sketch.	<b>04</b>	<b>CO6</b>
<b>3C.</b>	Write a short note on vehicular pollution.	<b>03</b>	<b>CO6</b>
<b>4A.</b>	Explain with a neat sketch waste water treatment plant layout.	<b>03</b>	<b>CO6</b>
<b>4B.</b>	What are the causes & harmful effects of Ozone layer depletion?	<b>04</b>	<b>CO10</b>
<b>4C.</b>	Outline any six principles with regard to environmental protection by the Stockholm conference, 1972.	<b>03</b>	<b>CO7</b>
<b>5A.</b>	Write a note on interlinking of Indian river development & its feasibility.	<b>03</b>	<b>CO9</b>
<b>5B.</b>	What is vermi – composting? Write a short note on Energy efficient buildings.	<b>04</b>	<b>CO6/CO10</b>
<b>5C.</b>	Briefly discuss the development programmes by the United Nations on environmental issues at international level.	<b>03</b>	<b>CO7</b>