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**MANIPAL INSTITUTE OF TECHNOLOGY**  
**MANIPAL**  
*A Constituent Institution of Manipal University*

**VI SEMESTER B.TECH. (CIVIL ENGINEERING)**  
**END SEMESTER EXAMINATIONS, APRIL/MAY 2017**  
**SUBJECT: ENVIRONMENTAL MANAGEMENT [CIE 3281]**  
**REVISED CREDIT SYSTEM**

**(03/05/2017)**

Time: 3 Hours

MAX. MARKS: 50

**Instructions to Candidates:**

- ❖ Answer **ALL** the questions.
- ❖ Missing data may be suitable assumed.

<b>1A.</b>	List and explain different levels of management.	<b>2</b>
<b>1B.</b>	Explain different approaches of environmental management to achieve sustainability	<b>5</b>
<b>1C.</b>	Write a short note on club of Rome.	<b>3</b>
<b>2A.</b>	Define Environmental Policy Instrument (EPI) and explain cleaner production strategies.	<b>3</b>
<b>2B.</b>	Explain the steps involved in Environmental Impact Assessment (EIA) with a flow chart.	<b>5</b>
<b>2C.</b>	List the benefits of Strategic Environmental Assessment.	<b>2</b>
<b>3A.</b>	Explain various steps involved in waste auditing.	<b>6</b>
<b>3B.</b>	List and explain different types of client driven environmental auditing.	<b>4</b>
<b>4A.</b>	Using a flow diagram explain the different stages of Life Cycle Assessment according to ISO 14040 and 14044 standards	<b>6</b>
<b>4B.</b>	Write a short note on ISO 14020 standards.	<b>4</b>
<b>5A.</b>	Explain different strategies for cleaner technology.	<b>4</b>
<b>5B.</b>	Define environmental design and list its key principles.	<b>4</b>
<b>5C.</b>	Explain carbon emission taxes.	<b>2</b>