

Reg. No.

**MANIPAL INSTITUTE OF TECHNOLOGY****MANIPAL***(A constituent institution of MAHE, Manipal)*

**II SEMESTER M.TECH. (ENVIRONMENTAL ENGINEERING)  
END SEMESTER EXAMINATIONS, MAY/ JUNE 2018**

**SUBJECT: ENVIRONMENTAL MANAGEMENT [CIE 5244]  
REVISED CREDIT SYSTEM  
(25/ 04/ 2018)**

Time: 3 Hours

MAX. MARKS: 50

**Instructions to Candidates:**

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

Q.No		Marks
1A.	Explain the components of sustainable development.	04
1B.	Explain the vicious cycle of poverty and Environmental degradation.	03
1C.	Define Environmental policy instrument. Explain briefly Regulatory and market based instrument	03
2A.	List and explain the basic principles of international environmental law.	05
2B.	Explain various phases in carrying capacity study.	05
3A.	With a neat sketch explain the implementation of EIA with project life cycle	04
3B.	Explain Deming's EMS cycle of continual improvement	04
3C.	Mention the series of ISO 14000.	02
4A.	Discuss the ten point strategy classification of companies based on their environmental performance.	04
4B.	Discuss the problems associated with environmental taxes.	02
4C.	Explain the various phases in Life cycle assessment.	04
5A.	Explain the different Environmental value techniques	04
5B.	Define Environmental Auditing. Explain in detail the benefits of Environmental Auditing.	03
5C.	Explain the following <ul style="list-style-type: none"> <li>i. Functional unit in LCA</li> <li>ii. Extended producer responsibility</li> <li>iii. Cradle to cradle concept</li> </ul>	03