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# Manipal Institute of Technology, Manipal

(A Constituent Institute of Manipal University)



## III SEMESTER M.TECH (ENVIRONMENTAL ENGINEERING)

### END SEMESTER EXAMINATIONS, MAY /JUNE 2016

### SUBJECT: ENVIRONMENTAL MANAGEMENT [CIE 576]

### REVISED CREDIT SYSTEM

Time: 3 Hours

MAX. MARKS: 50

#### Instructions to Candidates:

- ❖ Answer any **FIVE FULL** questions.
- ❖ Draw neat sketches using pencil wherever required

1A.	Define Environmental Management. Mention the characteristics of Environmental management	03
1B.	Explain the vicious cycle of poverty, and environmental degradation	03
1C.	Mention and discuss briefly the indicators of sustainable development.	04
2A.	What are the advantages of involving public in Environmental Management?	03
2B.	Define environmental policy instruments. Discuss the various typology in it.	05
2C.	With an example discuss on extended producer responsibility.	02
3A.	Explain various phases in carrying capacity study.	05
3B.	Explain the steps in EIA process in India.	05
4A.	Discuss the ten point strategy classification of companies based on their environmental performance	05
4B.	Explain the step by step procedure for EMS certification.	05
5A.	Define Environmental Auditing. Explain in detail the benefits of Environmental Auditing.	03
5B.	Discuss the problems associated with environmental taxes.	02
5C.	Explain in detail the phases in Life cycle assessment.	05
6A.	Write a short note on (i)Environmental cost and its types. (ii)Environmental valuation technique	06
6B.	Discuss the principles of Environmental Design	04