

Reg. No.

प्रज्ञानं ब्रह्म



INSPIRED BY LIFE

Manipal Institute of Technology, Manipal

(A Constituent Institute of Manipal University)



VI SEMESTER B.TECH (CIVIL ENGINEERING)

END SEMESTER EXAMINATIONS, MAY 2016

SUBJECT: ENVIRONMENTAL MANAGEMENT [CIE-342]

REVISED CREDIT SYSTEM

Time: 3 Hours

16-05-2016

MAX. MARKS: 50

Instructions to Candidates:

- ❖ Answer any **FIVE FULL** questions.
- ❖ Any missing data may be suitably assumed.

1A.	What are the goals and scope of Environmental Management?	3
1B.	Write a short note on-“Club of Rome” and “Silent spring”.	3
1C.	Consider a forest with an annual increase of 1080 g/m^2 per year in forest biomass. If the biomass at the beginning of the year was measured at 10200 g/m^2 , what would be the new biomass in the forest at the end of one year?(Given: Average energy in vegetation = 21 kJ/g)	4
2A.	Define Environmental Policy Instruments (EPI) and list various cleaner production strategies.	3
2B.	Explain different steps involved in EIA with the help of flow diagram.	4
2C.	What are the different benefits and constraints of Strategic Environmental Assessment (SEA)	3
3A.	Define Environmental Audit and list out its application.	3
3B.	What are the different stages in energy audit?	3
3C.	What are the different areas that Environmental Audit deals with?	4
4A.	Explain ISO 14040.	3
4B.	Explain different phases of Life Cycle Assessment(LCA)	4
4C.	Explain how the documentation for Environmental Management System is carried out.	3
5A.	What are the different key issues associated with environmental design?	4
5B.	List the various benefits of OHSAS 18001	3
5C.	Define Eco labelling and explain various types of voluntary labels identified by ISO	3
6A.	Enumerate the different problems associated with environmental taxes.	3
6B.	Explain different types of environmental costs.	4
6C.	Explain different cleaner technology practices	3