



# MANIPAL INSTITUTE OF TECHNOLOGY

MANIPAL

(A constituent unit of MAHE, Manipal)

**DEPARTMENT OF CIVIL ENGINEERING**  
**VI SEMESTER B.TECH. (CIVIL ENGINEERING)**  
**END SEMESTER**

SUBJECT: Environmental Management (CIE 4303)

Time: 2:30PM – 5:30PM

Date: 3/06/2023

MAX.MARKS: 50

Q. No.	Questions	M	CO
1A	What is sustainable development? List any four sustainable development goals and explain your understanding of them.	4	1
1B	Explain the concept of sustainability through Malthusian disaster.	4	1
1C	List any two initiatives taken in India for sustainable development.	2	1
2A	Elucidate the need of impact assessment for Land Use Change with an example	4	2
2B	Write a short note on the evaluation parameters of impact assessment.	3	2
2C	Discuss the role of public participation in Environmental Impact Assessment.	3	2
3A	Explain the significance of Life Cycle Assessment (LCA) using a case study.	4	3
3B	From the above case study, signify the importance of assessment criteria of LCA.	3	3
3C	What is the importance of end of life (EoL) in LCA? State an example	3	3
4A	Is there any need of eco-mapping? Define its workability.	4	4
4B	What are the key principles of ISO?	3	4
4C	Give an example stating the need of ISO in EMS.	3	4
5A	How the positive and negative externalities influence the economics of groundwater management?	4	5
5B	Explain the need of Environmental Design through examples of ecospace and sustainable infrastructure	4	5
5C	How can we choose environmental policy instruments?	2	5