



MANIPAL INSTITUTE OF TECHNOLOGY

MANIPAL

(A constituent unit of MAHE, Manipal)

SIXTH SEMESTER B.TECH (OPEN ELECTIVE)

END SEMESTER EXAMINATION, APRIL-MAY 2024

ENVIRONMENTAL MANAGEMENT (CIE 4303)

(10 – 05 - 2024)

TIME: 3 HRS.

MAX. MARKS: 50

Note: 1. Answer all questions.

2. Any missing data may be suitably assumed.

Q. NO	QUESTION	MARKS	CO	BL
1A	Explain the need for consideration of Brown Agenda in sustainable development goal.	4	1	4
1B	Using a case study, explain the pros and cons of Brown Agenda	3	1	4
1C	Express the mechanisms of Kyoto Protocol to encourage sustainability.	3	1	3
2A	Illustrate and explain the need of impact assessment using land-use.	3	2	3
2B	Explain the need of environmental baseline in EIA.	3	2	4
2C	Explain the commonalities and uncertainties between EIA monitoring and auditing	4	2	4
3A	What is the need of category as indicators for assessment of a product?	3	3	3
3B	Using the example of Land Use Change (LUC) results, explain the suitability of PLA (polylactide) cups.	3	3	4
3C	Distinguish between the performance of PLA cups versus PP and PET cups with respect to the impact category fossil fuel, climate change, and resource use.	4	3	3
4A	What is the utility of eco-mapping in Environmental Management System?	2	4	2
4B	Using the case study of Urban Ecomap of San Francisco explain how it caters to EMS and ISO.	4	4	4
4C	What is the ecosystem approach for the above case study? How does it benefit the innovation partners?	4	4	3
5A	On what principles does Environmental Design relies for sustainability?	3	5	1
5B	Using the case of Singapore river, explain the benefits of incorporating sustainable infrastructure.	4	5	3
5C	Describe how carrying capacity can be a dependent factor for development planning via ED.	3	5	4

