

Reg. No.


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

**VII SEMESTER B.TECH (CIVIL) END SEMESTER EXAMINATIONS
DECEMBER 2020**

**SUBJECT: ENVIRONMENTAL IMPACT ASSESSMENT AND AUDITING
[CIE 4021]**

Date of Exam: 28 /12 /2020

Time of Exam: 9.00 am to 12.00pm

Max. Marks: 50

Instructions to Candidates:

- ❖ Answer ALL the questions & missing data may be suitably assumed

1A.	Explain with an example, what is a leopard matrix.	4
1B.	Explain the role of various stakeholders (environmental practitioner, proponents and public) in the identification and evaluation of alternatives.	6
2A.	Describe the various methods by which we can define initial list of factors for a project.	4
2B.	Describe the assumptions of the box model. Derive the general equation used to determine concentration of pollutants from the box model.	6
3A.	What are regulatory external and liabilities audit? Explain	4
3B.	What are key characteristics of auditing? Explain. How does environmental impact statement aid EIA?	6
4A.	Explain the controls on contaminant transport and fate in soil.	4
4B.	What are different kinds of partitioning that can happen to contaminants in soil? Explain. How are sub-indices useful in gauging quality of an environmental parameter?	6
5A.	What are the limitations and benefits of EIA? Explain	4
5B.	What are terms of references? Why are they important? What might happen if there are no terms of reference?	6