



MANIPAL INSTITUTE OF TECHNOLOGY

MANIPAL

(A constituent unit of MAHE, Manipal)

DEPARTMENT OF CIVIL ENGINEERING

VII SEMESTER B.TECH. (CIVIL ENGINEERING)

END SEMESTER EXAMINATIONS, DEC 2023

SUBJECT: ENVIRONMENTAL IMPACT ASSESSMENT & AUDITING [CIE-4056]

(Date: 29-11-2023)

Date: 29/11/2023

Duration: 3 hours

Max marks: 50

Instructions to Candidates:

- ❖ Answer **ALL** the questions.
- ❖ Any data not provided may be suitably assumed.

| Q. NO | QUESTION | MARKS | CO |
|-------|---|-------|-----|
| 1A | Outline the Ad hoc and Leopold matrix methodology of impact identification. | 5 | CO2 |
| 1B | Explain the terms:- i) FONSI ii) EI iii) PWD | 3 | CO4 |
| 1C | Discuss the significance of public participation in environmental impact assessment. | 2 | CO4 |
| 2A | Illustrate with a flow chart the conceptual approach for Environmental Impact Assessment studies. | 5 | CO1 |
| 2B | Explain the meaning of environmental indices and their methods of estimation. with suitable examples. | 3 | CO3 |
| 2C | Summarize the role of impact assessment agency in environmental impact assessment studies. | 2 | CO3 |
| 3A | Develop a six step model in the prediction and assessment of impacts on surface water environment. | 5 | CO3 |
| 3B | Classify the various errors that can occur in the PWD. | 3 | CO4 |
| 3C | Explain controlled and uncontrolled exclusive surveys in a cultural environment. | 2 | CO3 |
| 4A | Outline in detail the environmental impact assessment procedure for an ore extraction project. | 5 | CO4 |



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| 4B | Discuss any six measures to mitigate the impacts on cultural environment. | 3 | C03 |
| 4C | Explain the phases involved in the preparation of written document. | 2 | C04 |
| 5A | Distinguish the various client driven audit. | 5 | C05 |
| 5B | Explain environmental auditing and its characteristics.. | 3 | C05 |
| 5C | Explain any four purposes of environmental monitoring. | 2 | C05 |