

Reg. No.



MANIPAL INSTITUTE OF TECHNOLOGY

MANIPAL

(A constituent unit of MAHE, Manipal)

II SEMESTER M.TECH. (ENVIRONMENTAL ENGINEERING)

END SEMESTER EXAMINATIONS MAY 2024

SUBJECT: ENERGY AND ENVIRONMENT [CIE 5302]

Date of Exam:

Time of Exam:

Max. Marks: 50

Instructions to Candidates:

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

Q.No.	Question	Marks	CO	BL
1A.	With suitable examples illustrate any two types of environmental impacts.	05	CO1	3
1B.	Illustrate the measures (any five) to reduce air pollution from coal-based thermal power plant.	05	CO1	3
2A.	With a neat sketch illustrate the working and cleaning mechanism of the fabric filter.	05	CO1	3
2B.	With a suitable case study explain the disposal of high-level waste generated from nuclear power plants.	05	CO2	4
3A.	Analyze the various environmental aspects related to wind power plants.	05	CO2	4
3B.	Illustrate the incineration process for solid waste and its advantages.	05	CO2	3
4A.	With a neat sketch explain the life cycle assessment process and its applications.	05	CO3	3
4B.	With a suitable example explain the Clean Development Mechanism.	05	CO4	4
5A.	With a neat sketch explain the direct gain passive solar heating.	05	CO5	4
5B.	Write a short note on plug and process loads. Illustrate a five-step process for plug load reduction.	05	CO5	3