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

II SEMESTER M.TECH. (ENVIRONMENTAL ENGINEERING)

END SEMESTER EXAMINATION, APRIL/MAY 2019

SUBJECT: ECOLOGY AND ENVIRONMENTAL IMPACT ASSESSMENT [CIE 5221]

REVISED CREDIT SYSTEM

(24 / 4 / 2019)

DURATION: 3 Hours

MAX. MARKS: 50

Instructions to Candidates:

- ❖ Answer **ALL** the questions.
- ❖ Missing data may be suitably assumed.
- ❖ Draw neat sketches wherever necessary.

Q.No.	Question statement	Marks	CO's
1A.	Give the detailed classification of ecosystems.	04	CO1
1B.	Explain in detail the conceptual approach for Environmental Impact Assessment studies.	06	CO3
2A.	Explain the overlay methodology of impact identification.	04	CO3
2B.	Explain with a neat sketch: i) Nitrogen cycle ii) Ecological pyramids	06	CO2
3A.	What is limnology? Explain the thermal stratification of lakes.	04	CO2
3B.	Explain in general the various activities involved in the assessment and prediction of impacts on the surface water environment.	06	CO4
4A.	Explain the types of environmental monitoring. Write any six purposes of environmental monitoring?	04	CO5
4B.	Explain with a neat sketch energy and nutrient flow in an ecosystem.	06	CO1
5A.	Give any eight impact mitigation measures involved for the cultural environment.	04	CO4
5B.	Explain in detail the EIA procedure for Thermal power plant project.	06	CO5