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

**II SEMESTER M.TECH. (ENVIRONMENTAL ENGINEERING)**

**END SEMESTER EXAMINATIONS, APRIL/MAY 2019**

**SUBJECT: ECOLOGY AND ENVIRONMENTAL IMPACT ASSESSMENT [CIE 5221]**

REVISED CREDIT SYSTEM

( / 6 / 2019)

Time: 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.  | Explain the functional and structural aspects of an ecosystem.  | 04    | CO   |
| 1B.  | Explain the EIA procedure carried out as per MOEF guidelines.   | 06    | CO   |
| 2A.  | Explain the matrix methodology of impact identification.  | 04    | CO   |
| 2B.  | Explain with a neat sketch:<br>i) Carbon cycle.      ii) Atmospheric layers.  | 06    | CO   |
| 3A.  | What are benthic organisms? Explain the trophic classification of lakes.  | 04    | CO   |
| 3B.  | Explain in general the various activities involved in the assessment and prediction of impacts on the cultural environment. | 06    | CO   |
| 4A.  | List the three phases involved and explain the types of errors that can occur in the preparation of the written document.   | 04    | CO   |
| 4B.  | Explain with neat sketches pyramid of number, biomass and energy.   | 06    | CO   |
| 5A.  | Explain the role of public participation in EIA studies.  | 04    | CO   |
| 5B.  | Explain in detail the EIA procedure for mining project.   | 06    | CO   |