

Reg. No.									
----------	--	--	--	--	--	--	--	--	--



**MANIPAL INSTITUTE OF TECHNOLOGY**

**MANIPAL**

*(A constituent institution of MAHE, Manipal)*

**II SEMESTER M.TECH. (ENVIRONMENTAL ENGINEERING)  
END SEMESTER EXAMINATIONS, APRIL/MAY 2018**

**SUBJECT: ECOLOGY AND ENVIRONMENTAL IMPACT ASSESSMENT [CIE 5221]  
REVISED CREDIT SYSTEM  
(17/ 04/ 2018)**

Time: 3 Hours

MAX. MARKS: 50

**Instructions to Candidates:**

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

<b>1A.</b>	Explain the structural and functional aspects of an ecosystem.	<b>04</b>
<b>1B.</b>	Write in detail the conceptual approach for Environmental Impact Assessment studies.	<b>06</b>
<b>2A.</b>	Define the terms:- i) EI      ii) EIS      iii) FONSI      iv) 1M	<b>04</b>
<b>2B.</b>	Explain with a neat sketch: i) Carbon cycle      ii) Nitrogen cycle	<b>06</b>
<b>3A.</b>	What is limnology? Explain the trophic classification of lakes.	<b>04</b>
<b>3B.</b>	Explain in general the six step activity involved in the assessment and prediction of impacts on socio-economic environment.	<b>06</b>
<b>4A.</b>	What are environmental indices and indicators? Give suitable examples.	<b>04</b>
<b>4B.</b>	Explain with a neat sketch energy and nutrient flow in an ecosystem	<b>06</b>
<b>5A.</b>	What are the different mitigation measures involved for the cultural environment?	<b>04</b>
<b>5B.</b>	Explain the EIA procedure for nuclear power plant project.	<b>06</b>