

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



**MANIPAL INSTITUTE OF TECHNOLOGY**

MANIPAL

(A constituent institution of MAHE, Manipal)

**II SEMESTER B.TECH. (Department of Civil Engineering)**

**END SEMESTER EXAMINATIONS, APRIL/MAY 2018**

**SUBJECT: ENVIRONMENTAL STUDIES [CIE 1002]**

**REVISED CREDIT SYSTEM**

**(27/ 04/ 2018)**

Time: 3 Hours

MAX. MARKS: 50

**Instructions to Candidates:**

- ❖ Answer ALL the questions.
- ❖ Missing data may be suitably assumed

1A.	"Environmental studies needs multidisciplinary approach". Justify this statement with suitable examples.	03	CO1
1B.	With a neat diagram discuss the different layers and its relative significance of each layers of atmosphere. Also describe the temperature variation.	04	CO1
1C.	Explain how human impact is affecting biogeochemical cycles.	03	CO2
2A.	"All Ecosystems maintain themselves in characteristics, dynamic state". Provide examples in support of this statement.	03	CO3
2B.	Mention the places in India where the minerals like gold, limestone, coal and bauxite are available	03	CO5
2C.	Explain the biotic and abiotic components of a lake ecosystem. What natural resources are to be preserved in order to maintain the lake ecosystem?	04	CO3
3A.	Define Biomagnification. Explain the classification of Taxon as per Red data book	05	CO4
3B.	List out the elements at risk and main mitigation strategies for floods and water hazards	02	CO8
3C.	Draw the flowchart for National Response mechanism with respect to disaster management	03	CO8
4A.	With the help of a neat sketch explain High Volume Air sampler	04	CO6
4B.	Write a short note on temperature inversion.	02	CO6
4C.	Explain Waste water treatment plant layout with the help of a schematic diagram.	04	CO6
5A.	What are the different phases of disaster management? Explain.	04	CO9
5B.	What are the advantages of GIS in disaster management? Explain any 4 powers and functions of pollution control boards	04	CO7
5C.	Write a short note on Energy efficient buildings.	02	CO10