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**MANIPAL ACADEMY OF HIGHER EDUCATION**  
**FIRST SEMESTER B.TECH. EXAMINATIONS – FEBRUARY-MARCH 2022**  
**SUBJECT : CIE 1052 ENVIRONMENTAL STUDIES (DTQ)**

Monday, February 21, 2022

Time: 03:30 – 5:10 Hrs.

Maximum Marks: 40

**PART - B**

- 1A. Explain in brief, how the assessment of CO<sub>2</sub> measurements of Geochemist, Charles David Keeling resulted in the setting up of a permanent observatory in Mauna Loa.
- 1B. With a neat sketch explain the two basic types of devices currently used to capture and utilize solar radiation. Write a short note on Rainwater harvesting  
(5+5 = 10 marks)
- 2A. Discuss the different Categories under IUCN red list. What is the environmental impact of the Ballari mining scam?
- 2B. “The present situation demands to refocus on ecologically sensitive agriculture”. Defend the statement with relevant examples.  
(5+5 = 10 marks)
- 3A. Explain the Green revolution. Describe Government policies to protect Environment in India.
- 3B. How a village declared electrified as per the “Rural Electrification policy” doesn’t guarantee true electrification and leaves considerable households un-electrified or partially electrified? Why 100% electrification for every rural household is a difficult task in the present scenario? Why “The Indian Green revolution” was implemented inevitably?  
(5+5 = 10 marks)
- 4A. Discuss the significance of the hydrology of wetlands in the effective water regulatory functions. Relate the various consequences of unscientific urbanization observed in Chennai city during and after floods in December 2015.
- 4B. Discuss on the application of modern tools in risk prediction and assessment of natural calamities  
(5+5 = 10 marks)

