

Code No: 54004

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech II Year II Semester Examinations, August/September - 2022

ENVIRONMENTAL STUDIES

(Common to CE, CSE, IT)

Time: 3 Hours

Max.Marks:75

**Answer any five questions
All questions carry equal marks**

- 1.a) Classify ecosystem.
b) Write down importance of ecosystem.
c) Discuss the functions of ecosystem. [5+5+5]
- 2.a) Compare floods and droughts and how to mitigate them.
b) Distinguish renewable and non-renewable energy sources. [7+8]
- 3.a) Why man-wild life conflicts occur, write down any four measures for the reduction of conflicts between them.
b) Elaborate in-situ and ex-situ conservation methods. [7+8]
- 4.a) Write down ISI standards for drinking water quality with respect to physical parameters.
b) How modern agriculture will impact on soil and how it degrades. [7+8]
5. Elaborate the following:
a) Green House effects
b) Effects of deforestation
c) Ozone depletion. [5+5+5]
- 6.a) List and explain various types of rainwater harvesting systems along with neat sketches
b) Define Remote Sensing and Geographical information System and applicability in water conversation studies. [7+8]
7. Water (prevention and control of pollution) Act brought in 1979, write down its necessity and how it protects the water. [15]
8. List out sustainable development goals (SDG's) and explain the objectives of goal number seven. [15]

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