



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

I SEMESTER B. TECH (PHYSICS)
IN SEMESTER EXAMINATION – I, JAN 2021
SUBJECT: ENVIRONMENTAL STUDIES (CIE_1052)
REVISED CREDIT SYSTEM

Time: 2pm-3.30pm

Date: 10/01/2021

MAX. MARKS: 20

Instructions:

- Answer all questions
 - Missing data, if any, may be assumed suitably.
 - Calculator is not allowed
-

1. Fill in the blanks:

1x5= 5 Marks

- There are _____ methods to calculate GDP.
- Elinor Ostrom won Nobel prize in _____.
- Crop rotation is a method to _____.
- Wasteland can be converted to _____.
- Waste management technique that involves the use of organisms to remove or neutralize pollutants from a contaminated site is known as _____.

Answer the following questions: Each question carries 3 marks.

3x5= 15 Marks

- Discuss the scope of the “tragedy of the commons” theory in environmental studies.
- Define the term 'Sustainable development’ and its relationship with environmental sustainability.
- Discuss the methods to harness tidal and wave energy with diagrams.
- How Arvari River was brought back into life?
- With a neat sketch explain the concept of energy pyramids.