

16
Program: B.Sc. EEE 6th Semester
Semester: Summer

Date: 16 February, 2023 (Thursday)
Time: 10:00 am – 11:30 am

ISLAMIC UNIVERSITY OF TECHNOLOGY (IUT)
ORGANISATION OF ISLAMIC COOPERATION (OIC)
DEPARTMENT OF TECHNICAL AND VOCATIONAL EDUCATION (TVE)

Exam: Mid Semester Examination

Course Number: Hum 4621

Course Title: Technology, Environment and Society

Academic Year: 2021 - 2022

Full Marks: 75

Duration: 90 minutes

There are 4 (four) questions. Answer 3 (three) questions. The symbols have their usual meaning.

1.
 - a) What is an ecosystem? Draw and explain the flow of energy of an ecosystem. 05 CO2 PO7
 - b) Define Carrying Capacity of an ecosystem. How can the idea of sustainable resource be used to contribute to the ecological balance? 10
 - c) Write a short note on Earth System and global Atmospheric Change. 10
2.
 - a) Do you think that uncontrolled population growth is an environmental concern? Justify your understanding with logical reasoning. 10 CO3 PO6
 - b) What is "Biodiversity Loss"? Explain Ecosystem Services of the nature with appropriate examples. 10
 - c) Explain the term Environmental Justice with example. 05
3.
 - a) Define carbon sequestration? What are the benefits of carbon sequestration? 05 CO1 PO6
 - b) What is Environmental Stewardship? Mention and describe the core principles of environmental stewardship. 10
 - c) Differentiate between weather and climate. How does the process of acid rain occur? Mention its consequences of acid rain to the environment. 10
4.
 - a) What is air pollution? Describe the categories of air pollutants with appropriate example. 05 CO3 PO6
 - b) What is ozone hole? Explain the process of ozone layer depletion with the chemical reactions. Mention the impacts of ozone layer depletion on human health and ecology. 15
 - c) Write a short note on sustainable development. 05