

Program: BSc (Eng.) CSE & SWE (1st Sem)
Semester: Winter

Date: 11th October, 2023 (Wednesday)
Time: 2:30 pm -4:00 pm

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

Examination: Mid Semester Examination

Academic Year: 2022 - 2023

Course Number: HUM 4147

Full Marks: 75

Course Title: Technology, Environment and Society

Time: 90 minutes

Answer (all) questions. The symbols have their usual meaning.

1.
 - a) Define the Earth system. Name the component of the earth system. (05) CO1 PO7
 - b) Define carrying capacity of an ecosystem and describe the functions of an ecosystem with examples. (10)
 - c) What do you understand by Environment? Explain the relationship among environment, society and technology. (10)
2.
 - a) Uncontrolled population growth is an environmental concern. What is your opinion? Explain with logical reasoning. (10) CO2 PO7
 - b) What is Biodiversity? Briefly discuss reasons of Biodiversity loss on the earth. (05)
(10)
 - c) Explain the process of ozone layer depletion with chemical reactions and mention the impacts of ozone layer depletion on human health and ecology.
3.
 - a) Explain the term Sustainable Development. Describe measures of sustainable development. (10) CO3 PO7
 - b) Differentiate between weather and climate. Explain the seven theories of climate change. (10) CO2
 - c) Describe Hydrological cycle and name five major pollutants of air. (05) CO2