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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)
c) Explain the process of ozone layer depletion with chemical reactions and mention the impacts of ozone layer depletion on human health and ecology. (10)
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