

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

Mid Semester Examination
Course No: HUM 4147

Course Title: Technology, Environment and Society

Winter Semester (2015-2016)
Time : 1hr 30 min.
Full Marks : 75

There are 4 (four) questions. Answer any 3 (three).

Figures in the right margin indicate marks of the questions.

1. a) Define carrying capacity of ecosystem. Do you think, carrying capacity can be enhanced with the help of science and technology? Clarify with appropriate example. 15
b) What is Ecosystem? Describe the energy flow and material flow of ecosystem with necessary diagram. 10
2. a) Mention the functions of the abiotic factors (air, water, temperature) in ecosystem. 5
b) Narrate the causes and impacts of "Soil Degradation" of this earth. 10
c) What is environmental Justice? Explain with appropriate examples 10
3. a) What are the four layers of atmosphere? Why does the curve of temperature fluctuate in various layers of atmosphere? Explain with appropriate drawings. 15
b) Write the examples of Green House Gas (GHG). How do they responsible of trapping temperature in the atmosphere of this earth? Explain with necessary diagram. 10
4. a) What is acid rain? Describe the impacts of acid rain on forest, aquatic lives and buildings and monuments. 10
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