

Program: BSc CSE & SWE 1st Semester Semester: Winter

Date: 23rd December 2023(Saturday) Time: 01:30pm - 04:30pm

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

Examination: Final Semester Examination Course Number: HUM 4147 Course Title: Technology, Environment and Society Academic Year: 2022 - 2023 Full Marks: 150 Duration: 3 Hours

Answer all questions. The symbols have their usual meaning.

## a) Explain the term Environmental Stewardship. Describe the principles of (10) CO3 PO7

environmental stewardship.

b) Differentiate between weather and Climate. Explain the seven theories of climate (10) CO2

e) How industrialized countries are maintaining environmental quality? (05) CO2

a) Explain the process of ozone layer depletion with chemical reactions and mention the (05) CO2 PO7

impacts of ozone layer depletion on human health and ecology. (10) CO3 b) How will you analyze impact of technology on environment? Describe the approaches

you have to follow to perform this analysis.

e) Describe Hydrological cycle and name five major pollutants of air. (10) CO3 a) What are the conditions that green technology must fulfill? (10) CO2 PO7

b) List the consequences of Global warming on Earth. What are the actions that can be (05) CO3 taken to reduce its imnact?

e) Municipal waste management is generally accepted as one of the ways of fighting (10) CO1 pollution. Which approach would you suggest to Board Bazar authorities to deal with

their solid wastes? Point out the pros and cons of the suggested approach. a) Define carrying Capacity of an ecosystem and describe the functions of an ecosystem (10) CO1 PO7

with examples. b) Define the Earth system. Name the component of the earth system. (05)

e) What do you understand by Environment? Explain the relationship among (10)

environment, society and technology.

a) These days a popular slogan in Dhaka is "SAVE THE BURIGANGA" After (10) CO3 PO7 describing different environmental protection methods, select the method most suitable

to solve this complicated problem. Show a reason behind selecting the suggested

Mention the ecologically critical areas under subsection (1) of section 5 of Bangladesh (10)

environmental conservation Act of 1995.

c) Describe the environmental hazards, morbidity and the quality of life. (05)a) What is the most viable renewable energy source for your country to invest in? Explain (15) CO2 PO7

why you pick that energy source? How it is better than the other energy choices in the following areas:

i) Long term energy supply, and

c) Differentiate between CFCs and Traditional refrigerants.

(05) CO2