

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

Semester Examination

Roll No: Num 4149

Subject: Technology, Environment and Society

Winter Semester (2013-2014)

Time : 1:30 hours.

Full Marks : 75

There are 4 (four) questions. Answer any 3 (three).
Figures in the right margin indicate marks of the questions.

- a) Define ecosystem. Identify the components of ecosystem. 5
- b) Draw and relate 'population growth' and the 'carrying capacity' of an ecosystem under the following circumstances; 10
 - i) abundant resource
 - ii) limited resource
- c) Describe the energy flow and material flow of ecosystem with necessary diagram. 10
- a) Narrate the measures of protection of "Soil Degradation" of this earth. 10
- b) "Present trend of population growth is considered as one of the major concerns of environmental degradation of our planet" – Do you agree with this statement. Justify. 10
- c) Mention the consequences of global warming in this world. 5
- a) Write the sources, principal forms and impacts of following air pollutants in environment; 16
 - i) Sulphur Oxides (SO_x)
 - ii) Oxides of carbon (CO_x)
 - iii) Nitrogen Oxides (NO_x)
 - iv) Volatile Organic Compounds (VOCs)
- b) What is acid rain? Mention the impacts of acid rain on forest and aquatic lives. 09
- a) Why does "photochemical smog" is known as secondary pollutant? Explain the formation of Photochemical Smog with necessary diagram. 10
- b) Explain the sources of CFS gases? How are they responsible for Ozone layer depletion? Write the impacts of Ozone layer depletion in this earth. 15