Date: 05 March 2019, Tuesday

Programme: BScEngg CSE, 1st Semester

## ISLAMIC UNIVERSITY OF TECHNOLOGY (IUT) ORGANISATION OF ISLAMIC COOPERATION (OIC)

## DEPARTMENT OF TECHNICAL AND VOCATIONAL EDUCATION (TVE)

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Summer Semester (2018-2019)

Course No: Hum 4147

Time

: 1hr 30 min.

Course Title: Technology, Environment and Society

Full Marks

: 75

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

Figures in the right margin indicate marks of the questions.

1.	a)	What is an ecosystem? Draw and explain the flow of energy in an ecosystem.	05
	b)	Define Carrying Capacity of an ecosystem. How can the idea of sustainable resource use contribute to the ecological balance?	10
	c)	Write a short note on Earth System and global Atmospheric Change.	10
2.	a)	Do you think that uncontrolled population growth is an environmental concern? Explain from your understanding with logical reasoning.	10
	b)	What is "Biodiversity Loss"? What are the general Ecosystem Services, we get from mother nature? Explain with example.	10
	c)	Explain the term Environmental Justice with example.	05
3.	a)	Define carbon sequestration? What are the benefits of carbon sequestration?	05
	b)	What is Environmental Stewardship? Mention and describe the core principles of environmental stewardship.	10
	c)	Differentiate between weather and climate. How acid rain forms and mention it's consequences to the environment from your understanding.	10
4.	a)	What is air pollution? Describe the categories of air pollutants with appropriate example.	05
	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
	c)	Explain Hydrological cycle with necessary illustration.	05