

Program: B.Sc.T.E. 2 Years 2nd Semester

Semester: Summer

Date: 16 February 2023 (Thursday)

Academic Year: 2021 - 2022

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Time: 10:00 am - 11:30 am

ISLAMIC UNIVERSITY OF TECHNOLOGY (IUT)

ORGANISATION OF ISLAMIC COOPERATION (OIC)

DEPARTMENT OF TECHNICAL AND VOCATIONAL EDUCATION (TVE)

Exam: Mid Semester Examination

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Course Number: Hum 4249

Course Title: Technology, Environment and Society

Full Marks: 75

Duration: 90 minutes

There are 4 (four) questions. Answer 3 (three) questions. Question 2 is compulsory. The symbols have their usual meaning.

1.	a)	Define the following terminologies in relation with environment. i. Environment,	08	
		ii. Technology,		
	i	ii. Society, and		CO1,
		iv. Development.		CO ₂
	b)	"Society uses environment to develop technology". How would you explain that statement with reference to the relationship of the above terminologies?	15	
	c)	What is the difference between 'earth' and 'earth system'?	02	
2.	a)	While the biosphere is the most dominant component of the earth system, it heavily depends on and affects the remaining parts of the earth system. Illustrate the interaction between the biosphere and the other spheres of the earth system	18	
		both positively and negatively.		CO ₂
	b)	With the help of a diagram, explain how energy flows among living beings of an ecosystem through the 4 (four) trophic levels.	07	
3.	a)	Define global atmospheric change. Why is it considered a major environmental problem?	10	
	b)	Demonstrate how overpopulation would impact the regular activities of the university if it were to happen in IUT?	10	CO3
	c)	Do you think the increasing number of fishing companies would lead to loss of biodiversity? Justify your answer.	05	
4.	a)	Differentiate between weather and climate?	05	
	b)	Do you think life on the earth depends on the presence of greenhouse gases (GHG) in the atmosphere? Elaborate your answer.	10	CO ₃
	c)	Explain the effects of global warming on the oceans and weather.	10	