ISLAMIC UNIVERSITY OF TECHNOLOGY (IUT)

ORGANISATION OF ISLAMIC COOPERATION (OIC)

Course: Technology, Environment and Society

HUM 4147

Winter Semester, 2019

**Issues to focus in the final exam**

**Topic 1: Environment and Ecology**

Environment, Ecosystem and Ecosystem Services, structure of ecosystem, functions of ecosystem, energy flow, Carrying capacity of an ecosystem, Biodiversity and its conservation

**Topic 2: The Global Environmental Picture**

Population growth impact on environment, Importance of Biodiversity; Sustainability, Sustainable Development, Stewardship; Environmental Justice

**Topic 3: Climate and Climatic Change**

Atmosphere, Global Warming and Green House Effect, Acid precipitation and its impacts, Urban Heat Island

**Topic 4: Air Pollution**

Definition of air pollution, Major Pollutants of air pollution and their impacts

**Topic 5: Water Resource and Pollution**

Hydrological Cycle, Aquifer and Ground Water Depletion, Water Pollution: point and non-point sources of pollution, water quality and natural process of purification

**Topic 6: Municipal Waste Management**

Waste typology, Waste stream, waste hierarchy, polluter pay principal, 3R

**Topic 7: Energy Resource**

Energy and its type, energy consumption, renewable energy

**Topic 9: Environmental Problems in Bangladesh**

Types of problems, natural disasters and its impact

**Topic 10: Environmental legislation**

Ecologically Critical Areas, Bangladesh Environmental Conservation Rules 1997

**Topic 11: Emerging Environmental Issues**

Green Building Technology and Sustainability, Kyoto Protocol and Carbon Trading, carbon footprint