

GUJARAT TECHNOLOGICAL UNIVERSITY
MCA Integrated - SEMESTER-VI -EXAMINATION- SUMMER-2018

Subject Code: 4460603**Date: 07/05/2018****Subject Name: Environmental Studies (ES)****Time: 10.30am to 01.00pm****Total Marks: 70****Instructions:**

1. **Attempt all questions.**
2. **Make suitable assumptions wherever necessary.**
3. **Figures to the right indicate full marks.**

- Q.1** (a) What is the need of environmental studies? Discuss some institutes contributing in preserving the environment. **07**
- (b) Discuss the role of individual in conservation of natural resources. **07**
- Q.2** (a) Define renewable and non renewable natural resources. Discuss the causes and effect of deforestation. **07**
- (b) Define soil erosion. Describe the methods of conservation of soil erosion. **07**
- OR**
- (b) Water is an essential resource justifies it. Discuss the various sources of water. **07**
- Q.3** (a) What is an eco system? Describe the components of it. Explain the water cycle with diagram. **07**
- (b) Draw and explain the Nitrogen cycle. **07**
- OR**
- Q.3** (a) Give some example of eco system. Discuss the CO₂ cycle with suitable diagram. **07**
- (b) Explain the oxygen cycle with suitable diagram. **07**
- Q.4** (a) Discuss the causes, impact and control measures of air pollution. **07**
- (b) How industries can manage the solid waste? **07**
- OR**
- Q.4** (a) Discuss the causes, impact and control measures of water pollution. **07**
- (b) Write a note on climate change, ozone layer depletion and its consequences. **07**
- Q.5** (a) What is the natural disaster? How can we manage the disaster? **07**
- (b) Discuss the various problem arises due to growth in population. **07**
- OR**
- Q.5** (a) Discuss the role of IT in environment protection. **07**
- (b) Describe the basic human rights decided by the United Nation (UN). **07**
