

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
ME – SEMESTER I (NEW) – • EXAMINATION – SUMMER 2016

Subject Code: 2711305

Date: 19/05/2016

Subject Name: Environment Impact Assessment of Transportation Project

Time: 02:30 pm to 05:00 pm

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) Discuss the necessity of Environment Impact Assessment (EIA) of transportation projects. **07**
(b) Describe the significance of 'Environmental Protection Act' at national level. **07**
- Q.2** (a) Which aspects are necessary to prepare the EIA document? **07**
(b) Discuss the steps involved in EIA process with the help of a flow chart. **07**
- OR**
- (b) Briefly explain the 'Screening' and 'Scoping' in EIA process. **07**
- Q.3** (a) Explain 'Analysis of the alternatives' in EIA of highway project. **07**
(b) Discuss the role of checklists and matrices in scoping process. **07**
- OR**
- Q.3** (a) What are the direct and indirect impacts on soil, water, flora and fauna due to highway project? **07**
(b) Discuss about magnitude, extent and duration of Impact studies. **07**
- Q.4** (a) Describe the sources and effects of various air pollutants. **07**
(b) Discuss the key legislation and regulations to control the impacts of vehicular air pollutants. **07**
- OR**
- Q.4** (a) What are the magnitudes and impacts of noise pollution due to Airport activity? Suggest the remedial measures for it. **07**
(b) Discuss about the anticipated positive and negative socio-economic impacts of new railway project. **07**
- Q.5** (a) Describe the necessity of Monitoring and Auditing in EIA procedure. **07**
(b) Explain the Matrix method for impact identification. **07**
- OR**
- Q.5** (a) Explain the objectives of Public participation in EIA process. **07**
(b) Discuss the methods adopted for prediction and assessment of impacts on air environment by highway project. **07**
