

GUJARAT TECHNOLOGICAL UNIVERSITY
M. E. - SEMESTER – I • EXAMINATION – WINTER • 2014

Subject code: 2711305**Date: 12-01-2015****Subject Name: Environment Impact Assessment of Transportation Project****Time: 02:30 pm - 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) Explain necessity of Environment Impact Assessment (EIA) of Transportation Projects. **07**
(b) With the help of flow chart discuss various steps involved in EIA process. **07**
- Q.2** (a) Describe the main environmental problems commonly associated with rural road projects in Asia. **07**
(b) Discuss importance of screening in EIA process. **07**
- OR**
- (b) Discuss importance of scoping in EIA process. **07**
- Q.3** (a) Explain planning and management of EIA studies. **07**
(b) Provide checklist for screening process of environmental appraisal. **07**
- OR**
- Q.3** (a) Provide checklist for policy approvers and decision makers in the process of environmental appraisal. **07**
(b) Discuss the significance of Mitigation measures in EIA procedure. **07**
- Q.4** (a) Explain the basic concept of environment impact assessment on air quality. Also, discuss briefly about the sources of Air pollutants. **07**
(b) What are the factors influencing the propagation of airborne vehicular pollutants? Discuss the relation between vehicle speed and emissions. **07**
- OR**
- Q.4** (a) Explain briefly remedial measures of environment impact by air pollutants. **07**
(b) Discuss about prediction and assessment methods for the noise impacts. **07**
- Q.5** (a) What are the different socio-economic impacts of the transportation projects? **07**
(b) Describe various mitigation measures of noise and social impacts. **07**
- OR**
- Q.5** (a) Explain about development of decision matrix for evaluation of alternatives in EIA process. **07**
(b) Discuss about the significance of public participation in environmental decision making process. **07**
