

GUJARAT TECHNOLOGICAL UNIVERSITY**ME – SEMESTER I (NEW) – • EXAMINATION – SUMMER 2017****Subject Code: 2711305****Date: 11/05/2017****Subject Name: Environment Impact Assessment of Transportation Project****Time: 02:30 p.m. to 05:00 p.m.****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 significance of Environment Impact Assessment (EIA) of highway project. **07**
(b) Clearly differentiate between 'screening' and 'scoping'. **07**
- Q.2** (a) Briefly explain the National Environmental Policy Act. **07**
(b) Show various stages involved in EIA process with the help of a flow chart. **07**
- OR**
- (b) Briefly describe the environmental clearance process of category 'A' highway projects in India. **07**
- Q.3** (a) Briefly describe the generic structure of EIA document. **07**
(b) Explain the consideration of types of alternatives for sound and sustainable highway project. **07**
- OR**
- Q.3** (a) Explain the various impacts on water environment to be considered while construction of sea port. **07**
(b) Prepare a summary matrix for scoping to compare two alternative alignments of new proposed railway line. **07**
- Q.4** (a) Describe various meteorological and ambient air quality data requirement for assessing impacts on air environment due to highway project. **07**
(b) Discuss anticipated environmental impacts and their mitigation measures for the hill road construction. **07**
- OR**
- Q.4** (a) Describe various meteorological and noise level data requirement for assessing impacts on noise environment due to airport project. **07**
(b) Discuss anticipated environmental impacts and their mitigation measures for the flyover construction in urban area. **07**
- Q.5** (a) Discuss anticipated socio-economic impacts and their mitigation measures for the by-pass road construction around a developing city. **07**
(b) Discuss the significance of public participation in EIA process. **07**
- OR**
- Q.5** (a) Briefly explain the techniques for conflict management and dispute resolution in EIA process. **07**
(b) Explain the importance of recycling, reuse and reducing strategy in the highway project for environmental protection. **07**
