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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 **Total Marks: 70** Time: 02:30 pm - 05:00 pm **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 07 Projects. (b) With the help of flow chart discuss various steps involved in EIA process. **07** Q.2Describe the main environmental problems commonly associated with rural 07 (a) road projects in Asia. Discuss importance of :screening@in EIA process. 07 (b) **(b)** Discuss importance of :scopingøin EIA process. 07 Q.3(a) Explain planning and management of EIA studies. 07 Provide checklist for screening process of environmental appraisal. 07 **(b)** OR Provide checklist for policy approvers and decision makers in the process of Q.3**07** (a) environmental appraisal. Discuss the significance of Mitigation measures in EIA procedure. **07 (b) Q.4** Explain the basic concept of environment impact assessment on air quality. **07** (a) Also, discuss briefly about the sources of Air pollutants. What are the factors influencing the propagation of airborne vehicular 07 (b) pollutants? Discuss the relation between vehicle speed and emissions. **Q.4** Explain briefly remedial measures of environment impact by air pollutants. 07 (a) Discuss about prediction and assessment methods for the noise impacts. 07 (b) **Q.5** What are the different socio-economic impacts of the transportation projects? **07** (a) Describe various mitigation measures of noise and social impacts. **(b)** 07 OR Explain about development of decision matrix for evaluation of alternatives in **Q.5 07** (a) EIA process. Discuss about the significance of public participation in environmental decision **07** (b) making process.
