Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

ME – SEMESTER II (NEW) – • EXAMINATION – SUMMER 2016

Subject Code: 2721801

Date: 25/05/2016

Subject Name: Environmental Impact Assessment Time: 10:30 am to 01:00 pm **Total Marks: 70 Instructions:** 1. Attempt all questions. 2. Make suitable assumptions wherever necessary. 3. Figures to the right indicate full marks. 07 **Q.1** Enlist the detailed contents of EIA and explain any two in brief. (a) Enlist and explain the goals of sustainable development. Explain the concept of 07 **(b)** "Carrying capacity based sustainable development." Differentiate between scoping and screening as per EIA notification 2006. 07 **Q.2** (a) Give the classification of checklist method of EIA and explain each method in 07 **(b)** brief. Write a note on impact identification matrix. Explain Leopold matrix in detail. **(b)** 07 Write a note on Ecological Impact assessment including the baseline ecological 0.3 07 (a) studies, prediction and mitigation measures. What is SEIA? Explain what it includes in detail. **07 (b)** Write a note on Battelle EES method for EIA 07 0.3 (a) With the help of suitable examples explain the following: 07 **(b)** (i) Primary, secondary and tertiary impacts. (ii) Long term and short term impacts. Write a note on 'Value function graphs'. Highlight its use in EIA. Prepare 0.4 07 (a) value function graphs for any four water quality parameters. Highlight the advantages and disadvantages of public consultation in overall **07 (b)** Environmental clearance process. Explain its procedure as per EIA notifications. OR Explain the impact prediction and mitigation methods for Air Quality 0.4 (a) **07** Assessment (AQA). **(b)** List down the steps for assessment of impacts of a project on surface water **07** environment and explain how impacts can be predicted. **Q.5** (a) Write a note on Environmental Management Plan taking case study of any **07** industry/project. **(b)** What is Environmental Monitoring Plan? Explain it giving example. **07 07** 0.5 Explain EIA as a four step activity. (a) Prepare a list of environmental attributes. What type of data is required in order 07 **(b)** to describe environmental attributes? *****