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GUJARAT TECHNOLOGICAL UNIVERSITY ME - SEMESTER- II (Old course) • REMEDIAL EXAMINATION - SUMMER 2015 **Subject Code: 1721801** Date: 12/05/2015 **Subject Name: Environmental Impact Assessment** Time: 02:30 pm to 5:00 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) Define Sustainable Development Enlist the methods to achieve Sustainable 07 Developmentø and explain any one in detail. **(b)** Enlist the four steps of EIA and elaborate on each step. **07** (a) Write a note on õDetailed Contents of EIA.ö 07 Q.2 **(b)** Explain in detail the development and use of value function graphs for evaluation of impacts. OR (b) Establish the relationship between human activities and environmental impact with 07 the help of diagram. (a) Give the classification of impacts based on Acceptability, Reversibility and Time 07 0.3 period. **(b)** Write a short note on õEnvironmental Attributesö. **07** OR (a) Enlist the advantages and disadvantages of public involvement in the overall Q.3 07 environmental clearance process for any project. **(b)** Explain the screening and scoping process described in EC notification **07** 07 **Q.4** (a) Prepare a list of EIA methodologies and explain any two (b) What type of information/data is required to describe the baseline environmental 07 conditions? What is the significance of baseline data? (a) Differentiate between (i) Comprehensive EIA and Rapid EIA. **07 Q.4** (ii) Category B1 and B2 project activities in terms of obtaining Environmental clearance. **(b)** Explain clearly the difference between Impact Analysis and Impact Assessment. 07 Q.5 (a) Prepare a list of short term and long term environmental impacts for construction **07** of main canal for a dam and explain them in brief. **(b)** What makes EIA a time consuming, expensive and subjective exercise? **07** (a) Prepare a matrix for constructing a Sewage Treatment Plant .Extend the impacts 07 Q.5

(b) Explain the difference between environmental effects and impacts with appropriate

to health of downstream users.

example.