

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

M.E –IIst SEMESTER–EXAMINATION – JULY- 2012

Subject code: 1721801

Date: 06/07/2012

Subject Name: Environmental Impact Assessment

Time: 10:30 am – 13:00 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) Enlist different EIA methods and explain any one in detail. **07**
(b) Define and differentiate between Impact Assessment and Impact Statement. Is Impact Statement required in India? **07**

- Q.2** (a) You have been retained by a proponent to develop EIA. Briefly explain how you will get started. **07**
(b) With the help of appropriate example define the following : **07**
(i) Primary and secondary impacts.
(ii) Reversible and irreversible impacts.

OR

- (b) Define the following with the help of an example: **07**
(i) Quantifiable and non quantifiable impacts.
(ii) Acceptable and non acceptable impacts

- Q.3** (a) Define 'Environmental Attributes' and explain its relationship with 'impact'. **06**
(b) (i) Explain the prediction and evaluation steps of EIA procedure. Cite appropriate example. **08**
(ii) Highlight the importance of describing the existing environmental conditions in EIA.

OR

- Q.3** (a) What is provided in the 'Schedule' under EIA Notification 2006 ? Explain its importance with reference to the EIA procedure. **07**
(b) Explain the Leopold Matrix method of EIA. Would you recommend this method for India. **07**
Q.4 (a) Explain with illustrations the primary sources of air pollution, which should be considered for Air Quality Assessment studies. **07**
(b) Write a short note on 'Social Impact Assessment' for a proposed large dam **07**

OR

- Q.4** (a) Describe six-step methodology for carrying out Water Impact Assessment studies. **07**
(b) Discuss 'scoping' for Air Quality Assessment studies for a coal-based 1000 MW thermal power project. **07**
Q.5 (a) Discuss methodology for predicting impacts of an untreated municipal wastewater stream proposed to be discharged into a river. **07**
(b) Why impact assessment for land and landscape should be carried for large projects? Discuss typical mitigation measures for minimizing land and visual impacts of a large industrial estate. **07**

OR

- Q.5** (a) You are required to develop EIA report for proposed construction of a highway project. as an assessor prepare a simple checklist of environmental parameters likely to be affected. **07**
(b) For complete description of Suspended Particulate Matter as air quality attribute , what type of information is required? **07**
