

GUJARAT TECHNOLOGICAL UNIVERSITY**ME - SEMESTER-IV • EXAMINATION – SUMMER • 2014****Subject Code: 741701****Date: 04-06-2014****Subject Name: Environmental Legislation and Management****Time: 02:30 pm - 05:00 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 and explain the functions of State Pollution Control Board. **07**
(b) Write a short note on Water Balance Diagram **07**
- Q.2** (a) Enlist the different methodologies for carrying out EIA and explain Checklist method in detail. **07**
(b) Write a note on Need of Environmental Legislation. **07**
- OR**
- (b) Define Environmental audit. Enlist and explain the objectives of Environmental audit. **07**
- Q.3** (a) What is material mass balance? How is material mass balance done in a chemical industry? What is its use and application? **07**
(b) Write a short note on Constitutional provisions for Environmental protection. **07**
- OR**
- Q.3** (a) How does the sampling procedure differ under Water (Prevention & Control of Pollution) Act, 1974 and Air (Prevention & Control of Pollution) Act 1981. **07**
(b) Write a note on Environment Management Programme of an industry **07**
- Q.4** (a) Explain the objectives of Environmental Impact Assessment. **07**
(b) Write a short note on Public Participation in EIA. Highlight its advantages and disadvantages. **07**
- OR**
- Q.4** (a) Write down the penalty provisions under Water (Prevention & Control of Pollution) Act, 1974 and Air (Prevention & Control of Pollution) Act 1981. **07**
(b) Explain baseline monitoring? Explain its importance in the process of EIA. **07**
- Q.5** (a) It is proposed to construct an Expressway connecting two major cities. Enlist the probable environmental impacts and classify them as short term & long term and reversible and irreversible. **07**
(b) Highlight the difference between corrective action & preventive action in ISO 14000 **07**
- OR**
- Q.5** (a) Explain the cost benefit analysis method of impact analysis. **07**
(b) Explain the procedure of obtaining Environmental Clearance for a project **07**
