

**IV B.Tech. I Semester Regular Examinations, November -2005
ENVIRONMENTAL IMPACT ASSESSMENT AND MANAGEMENT
(Civil Engineering)**

Time: 3 hours

Max Marks: 80

**Answer any FIVE Questions
All Questions carry equal marks**

1. (a) Explain main stages in EIA process.
(b) Discuss objectives, merits and demerits of EIA. [8+8]
2. (a) What is meant by EMP? How do you prepare EMP for given engineering project.
(b) Describe the EIA methodologies. [8+8]
3. Explain stepwise how do you predict and assess impacts on the surface water environment. [16]
4. Explain the various environmental parameters to be monitored in pre-project stage. [16]
5. Explain the following approaches for prediction of environmental impacts of engineering projects.
(a) Qualitative approaches
(b) Mathematical modelling approaches. [8+8]
6. Discuss the procedure for prediction and assessment of impact on the Air Environment. [16]
7. What are the objectives of Environmental monitoring? Explain in brief pre-project monitoring. [16]
8. Write short note on:
(a) Environmental ethics
(b) Environmental legislation. [8+8]

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1. (a) What is EIA? Explain how do you prepare EIA report.
(b) Discuss about the need of EIA for engineering projects. [8+8]
2. (a) Describe the relevance of environmental indices and indicators.
(b) Discuss about environmental indices for water and air quality. [8+8]
3. Discuss in detail about the environmental parameters to be considered for preparation of pre-project environmental report. Describe the critical issues which need to be considered. [16]
4. How do you identify various potential environmental impacts resulting from an engineering project? Explain any two methods. [16]
5. (a) What is box model approach of EI prediction.
(b) How do you estimate the impact of a given heavy industry on air, water and land environment? [6+10]
6. Explain Battle environmental Evaluation system. Discuss in detail the issues involved for assessment of impacts. [16]
7. Explain the measures to be taken for mitigation of adverse environmental impacts during operational phases of an engineering project. [16]
8. Explain the environmental impacts of National Highways with suitable case studies. [16]

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1. (a) Explain the factors affecting the EIA IMPACT evaluation and Analysis.
(b) Describe the preparation of Environmental Base map. [8+8]
2. (a) Differentiate between EIA & EIS? Explain how do you prepare EIS?
(b) Discuss objectives, merits and demerits of EIA. [8+8]
3. What are the various environmental indicators and indices? Explain the environmental indices for air quality description. [16]
4. Explain the following approaches for prediction of environmental impacts of engineering projects:
(a) Mass balance approaches
(b) Mathematical modelling approach. [8+8]
5. Explain the battle environmental evaluation system for assessment of impacts with suitable examples. [16]
6. What is EMP? What are measures employed for mitigation of adverse environment? [16]
7. Explain in detail about a case study related to EI of thermal power plant. [16]
8. Discuss in detail about methodology of EIA and measures for mitigation of adverse impact of a large scale water resource project. [16]

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1. (a) What are the basic concepts of EIA?
(b) What are the environmental ethics? What are the advantages of environmental ethics? [8+8]
2. (a) Describe the elements of EIA?
(b) What are the factors affecting EIA IMPACT evaluation and Analysis. [8+8]
3. (a) Explain the Ad-hoc methods of EIA.
(b) Discuss about methodologies for identification of potential environmental impacts of typical engineering projects. [8+8]
4. Explain stepwise how do you predict and assess impacts in the Air environment. [16]
5. (a) Explain the qualitative approaches for prediction of environmental impacts of engineering projects.
(b) Explain the Box-model approaches for prediction of various environmental impacts for Engineering projects. [8+8]
6. Explain the following approaches for prediction of environmental impacts of engineering projects.
(a) Mathematical modelling approach.
(b) Mass balance approach. [8+8]
7. Explain the environmental impacts of Railways with suitable case studies. [16]
8. Write short notes on the following:
(a) Stages of Environmental Audit
(b) Port Audit activities. [8+8]
