

Code No: **R42014**

**R10**

**Set No. 1**

**IV B.Tech II Semester Regular/Supplementary Examinations, April/May - 2016**  
**ENVIRONMENTAL IMPACT ASSESSMENT AND MANAGEMENT**  
**(Civil Engineering)**

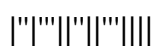
**Time: 3 hours**

**Max. Marks: 75**

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

\*\*\*\*\*

1. a) What is Initial environmental examination?  
b) What are the important steps in EIA?
2. Explain the necessity of Environmental impact Assessment. Justify how EIA will lead to sustainable development?
3. Explain the following:
  - a) Environmental analysis
  - b) Assessment of impact significance.
4. Explain the following approaches for prediction of environmental impacts of engineering projects
  - a) Mass balance approaches
  - b) Mathematical modeling approach.
5. Describe the physical, chemical and biological attributes with reference to water quality environment
6. What are the activities at site to be carried for Environmental audit?
7. How can you predict the impacts of the project activity on biological environment?
8. Discuss the need for public awareness on environment impact assessment.



Code No: **R42014**

**R10**

**Set No. 2**

**IV B.Tech II Semester Regular/Supplementary Examinations, April/May - 2016**  
**ENVIRONMENTAL IMPACT ASSESSMENT AND MANAGEMENT**  
**(Civil Engineering)**

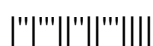
**Time: 3 hours**

**Max. Marks: 75**

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

\*\*\*\*\*

1. a) Explain about methods of evaluation step in EIA process.  
b) How an Initial environmental examination helps for a full scale EIA?
2. What are the basic parameters to be followed in selecting an impact assessment methodology? Explain matrix method of EIA.
3. Explain the general impacts on soil environment by development activity.
4. Explain the Qualitative approaches for prediction of environmental impacts of engineering projects.
5. What are the important factors associated in the prediction and assessment of impacts on the air environment by a coal based thermal power plant? Discuss.
6. Explain in detail the procedure for preparation of Audit report.
7. Write about different powers given to the state pollution control boards under the water act 1974.
8. Write a detailed case study on the Bhopal gas tragedy.



Code No: **R42014**

**R10**

**Set No3**

**IV B.Tech II Semester Regular/Supplementary Examinations, April/May - 2016**  
**ENVIRONMENTAL IMPACT ASSESSMENT AND MANAGEMENT**  
**(Civil Engineering)**

**Time: 3 hours**

**Max. Marks: 75**

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

\*\*\*\*\*

1. Write about the systematic approach for using EIA as a planning tool for major Project activities.
2. What are the advantages of over laying the techniques? State the limitations of cost-benefit analysis.
3. How to assess the impacts on soil and water by mining activity? Explain in detail.
4. List the various Environmental indicators and indices. Explain the environmental indices for air quality description
5. Explain in detail about causes and effects of deforestation.
6. Describe in detail about the different types of Environmental Audit.
7. Write about the powers of central government to take measures to protect and improve environment under environmental protection act.
8. Discuss Environmental protection studies in industries. Give a case study.

Code No: **R42014**

**R10**

**Set No. 4**

**IV B.Tech II Semester Regular/Supplementary Examinations, April/May - 2016**  
**ENVIRONMENTAL IMPACT ASSESSMENT AND MANAGEMENT**  
**(Civil Engineering)**

**Time: 3 hours**

**Max. Marks: 75**

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

\*\*\*\*\*

1. a) Explain about the identification step in EIA.  
b) Explain about the predictive step method in EIA.
2. a) How the Matrix method help the project planner?  
b) What is interaction - Matrix methodology? Explain.
3. Explain the methodology for the assessment of ground water.
4. How do you identify various potential environmental impacts resulting from an engineering project? Explain briefly.
5. Explain the Impact of development Activities on Vegetation and wildlife.
6. What is Environmental Audit? Explain the various stages of Environment Audit.
7. Discuss about Environmental pollution control Act, 1986.
8. Write a case study undertaken by the industries to protect polluted agricultural land.