

### **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

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- 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.



### **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

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- 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.



### **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**

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- 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 costbenefit 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.



### **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

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- 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.