

Code No: **R42014****R10****Set No. 1**

IV B.Tech II Semester Regular Examinations, April/May - 2014
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 EIA? Explain. [8]
b) Discuss objectives, merits and demerits of EIA. [7]
- 2 a) Describe Environmental media Quality Index method in detail. [8]
b) Describe the EIA methodologies. [7]
- 3 a) Discuss the mitigation measures for soil and groundwater impacts. [8]
b) Explain the various steps in preparing of EIA report. [7]
- 4 a) Write a detailed note on identification of surface water Quantity or Quality impacts. [8]
b) Explain the Box-model approaches for prediction of various environmental impacts for engineering projects. [7]
- 5 a) Differentiate between deforestation and forest degradation. [8]
b) Explain the common causes of deforestation around the world. [7]
- 6 a) Explain the different steps of a proposed model for EIA study on air environment with the help of a schematic diagram. [8]
b) Discuss evaluation of audit data and preparation of Audit report. [7]
- 7 a) What is meant by Environmental Audit? What are the different objectives of it. Explain. [8]
b) Describe the process of Audit protocol [7]
- 8 a) Write a note on Preparation of Audit Report [8]
b) Write a note on Environmental legislation. [7]

Code No: **R42014****R10****Set No. 2**

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(Civil Engineering)

Time : 3 hours**Max. Marks: 75**

Answer any Five Questions
All Questions carry equal marks

- 1 a) Give a brief account on cost benefit analysis of EIA. [8]
b) Discuss about the need of EIA for engineering projects. [7]
- 2 a) List out different EIA methods. Explain Ad-hoc methods in detail. [8]
b) Discuss about environmental indices for water and air quality. [7]
- 3 a) Discuss about environmental indices for water and air quality. [8]
b) Explain the various steps in preparing of EIA report. [7]
- 4 a) Draw the schematic diagram for conceptual approach to the study focused on surface water Environment impacts. [8]
b) Write a detailed note on 'compilation of water Quantity-Quality information. [7]
- 5 a) Describe the systematic approach for evaluating biological impacts. [8]
b) How do you estimate the impact of a given heavy industry on air, water and land environment? [7]
- 6 a) Explain Battle environmental Evaluation system. Discuss in detail the issues involved for assessment of impact. [8]
b) What is EMP? What are measures employed for mitigation of adverse environment? [7]
- 7 a) What is Environmental Audit? Explain. [8]
b) Explain the measures to be taken for mitigation of adverse environmental impacts during operational phases of an engineering project. [7]
- 8 a) Write a note on Environmental pollution Act. [8]
b) Write a note on Factors affecting EIA. [7]

Code No: **R42014****R10****Set No. 3**

IV B.Tech II Semester Regular Examinations, April/May - 2014
ENVIRONMENTAL IMPACT ASSESSMENT AND MANAGEMENT
(Civil Engineering)

Time : 3 hours**Max. Marks: 75**

Answer any Five Questions
All Questions carry equal marks

- 1 a) Describe possible changes in the environment by various project activities. [8]
b) Describe the preparation of Environmental Base map. [7]
- 2 a) Describe matrix method in detail [8]
b) Discuss objectives, merits and demerits of EIA. [7]
- 3 a) Write a detailed note on Direct land use impacts. [8]
b) What are the various environmental indicators and indices? Explain the environmental indices for air quality description. [7]
- 4 a) Explain various developmental activities which cause significant impact on surface water resources. [8]
b) Describe the mitigation measures for surface water environment impact. [7]
- 5 a) What do you mean by bio diversity? Explain the different components of Biological Diversity. [8]
b) Explain the battle environmental evaluation system for assessment of impacts with suitable examples. [7]
- 6 a) Write a detailed note on generalized approach for assessment of air pollution Impact. [8]
b) What is EMP? What are measures employed for mitigation of adverse environment? [7]
- 7 a) Discuss the different topics of Environmental compliance Audit. [8]
b) Explain in detail about a case study related to EI of thermal power plant. [7]
- 8 a) Write a short note on Environmental Impact of deforestation [8]
b) Write a short note on Audit protocol [7]

Code No: **R42014****R10****Set No. 4**

IV B.Tech II Semester Regular Examinations, April/May - 2014
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(Civil Engineering)

Time : 3 hours**Max. Marks: 75**

Answer any Five Questions
All Questions carry equal marks

- 1 a) Describe systematic approach for using EIA as a planning tool for major Project activities in brief. [8]
b) What are the basic concepts of EIA? [7]
- 2 a) Explain the different characteristics that the impact evaluation methods should have. [8]
b) Describe the elements of EIA? [7]
- 3 a) Write a detailed note on identification of activities which will have different types of impacts on soil and ground water Quantity and Quality. [8]
b) Discuss about methodologies for identification of potential environmental impacts of typical engineering projects. [7]
- 4 a) Describe the environmental effects on surface water. [8]
b) Explain stepwise how do you predict and assess impacts in the Air environment. [7]
- 5 a) Describe biological and regulatory mitigation measures for the mitigation of biological impact. [8]
b) Explain the Box-model approaches for prediction of various environmental impacts for Engineering projects. [7]
- 6 a) Describe different sources of air pollution. [8]
b) Explain the Mass balance approach for prediction of environmental impacts of engineering projects. [7]
- 7 a) Describe management Audit in detail. [8]
b) Explain the environmental impacts of Railways with suitable case studies. [7]
- 8 a) Write a short note Environmental Legislation. [8]
b) Write a short note Post Audit activities [7]