

Code No: R42014

R10

Set No. 1

IV B.Tech II Semester Regular/Supplementary Examinations, April- 2015
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 the basic concepts and objectives of Environmental Impact Assessment. [8]
b) What do you understand by the terminology-Initial Environmental Examination? Discuss in detail. [7]
- 2 a) Discuss the use/purpose of evaluation methodologies in EIA studies. [8]
b) Enumerate Ad-hoc method and Matrix method. [7]
- 3 a) Explain the role of Identification of Impacts in EIA. How do you identify impacts? [8]
b) Differentiate primary & secondary, temporary & secondary, reversible & irreversible, and long & short term impacts with examples. [7]
- 4 a) Explain the role of prediction in EIA studies. [8]
b) Explain the importance of models in ambient air quality assessment from power plants. [7]
- 5 a) Write a detailed note on the methods/ways to assess Impacts due to any developmental activity. [8]
b) Enumerate the causes and effects of deforestation. [7]
- 6 a) Define Environmental Audit and discuss its importance. [8]
b) Enumerate in detail about Environmental Audit Protocol. [7]
- 7 a) Write a detailed note on the importance of post audit activities. [8]
b) Discuss the salient features of MOTA Act. [7]
- 8 a) Explain the important Environmental Components to be considered for a Thermal power plant. [8]
b) Prepare an Environmental Impact Statement for water resources project by considering major impacts along with mitigation measures. [7]



Code No: **R42014**

R10

Set No. 2

IV B.Tech II Semester Regular/Supplementary Examinations, April- 2015
ENVIRONMENTAL IMPACT ASSESSMENT AND MANAGEMENT
(Civil Engineering)

Time: 3 hours

Max. Marks: 75

Answer any FIVE Questions
All Questions carry equal marks

- 1 a) Define EIA and Sustainable development. Discuss the significance of EIA in sustainable development. [8]
b) Write about screening and scoping in EIA studies. [7]
- 2 a) Name various methods for evaluation of Impacts and explain briefly about each evaluation method. [8]
b) Explain the objective of cost/benefit analysis. [7]
- 3 a) Write an essay on the Identification of Impacts associated with developmental activities. [8]
b) What are the various activities that have an impact on soil and ground water? [7]
- 4 a) Discuss various methods for the assessment of impacts on surface water environment. [8]
b) Compare and discuss the following: i) Primary & Secondary Impacts
ii) Permanent and Temporary Impacts iii) Reversible and irreversible impacts
iv) Direct and Indirect Impacts. [7]
- 5 a) State the major impacts on forests due to water resources project and suggest mitigation measures. [8]
b) Enumerate the significant impacts due to deforestation. [7]
- 6 a) Write a detailed note on the Environmental Audit notification 1992. [8]
b) Mention different stages involved in Environmental Audit studies and highlight each stage. [7]
- 7 a) Write an essay on Water Act highlighting the role of Central and State pollution control boards. [8]
b) What is Environmental (Protection) Act-1986 and explain its significance. [7]
- 8 a) Mention salient steps in the preparation of Environmental Impact Statement. [8]
b) State the most important environmental components to be considered for highway project. [7]



Code No: **R42014**

R10

Set No. 3

IV B.Tech II Semester Regular/Supplementary Examinations, April- 2015
ENVIRONMENTAL IMPACT ASSESSMENT AND MANAGEMENT
(Civil Engineering)

Time: 3 hours

Max. Marks: 75

Answer any FIVE Questions
All Questions carry equal marks

- 1 a) Define Environment, Environmental Impact and Environmental Impact Assessment. Also explain the role of Sustainable development. [8]
b) Write about Rapid EIA and Comprehensive EIA studies highlighting the difference between them. [7]
- 2 a) Explain the criteria for the selection of EIA methodologies, and name different methodologies. [8]
b) Critically review the following two methods: i) Network method, [7]
ii) Matrix method.
- 3 a) What is the role of Identification of Impacts in EIA studies? Draw a Identification network indicating important components in the network. [8]
b) Describe the importance of Land use planning in any developmental activity. [7]
- 4 a) What is prediction? Explain its scope in EIA studies. [8]
b) Explain the procedure to predict the impact of air emission on ambient air quality. [7]
- 5 a) Enumerate the significance of vegetation and wild life. [8]
b) Define the term deforestation? Discuss the causes and its effects. [7]
- 6 a) Define the term Environmental Audit (EA). What are the recognizable benefits of EA. [8]
b) Mention the content of Environmental audit report and explain. [7]
- 7 a) What is the need for Post audit activities? [8]
b) Write in detail the salient features of Air Pollution Act. [7]
- 8 a) State and discuss various stages/steps involved in the preparation of EIA statement for highway project. [8]
b) What are the points to be considered in delineating the study area for mining project? [7]



Code No: **R42014**

R10

Set No. 4

IV B.Tech II Semester Regular/Supplementary Examinations, April- 2015
ENVIRONMENTAL IMPACT ASSESSMENT AND MANAGEMENT
(Civil Engineering)

Time: 3 hours

Max. Marks: 75

Answer any FIVE Questions
All Questions carry equal marks

- 1 a) Define Sustainable Development. Name two premises that need to satisfy in Sustainable Development. Discuss the role of EIA in Sustainable development. [8]
b) State various stages in EIA studies and discuss the significance of each step. [7]
- 2 a) What is the need for evaluation of impacts? Explain the general approach for evaluation. [8]
b) Explain in detail: Index method and Overlays method. [7]
- 3 a) Briefly discuss the methodology to assess the impacts on soil and ground water [8]
b) What are the factors to be considered for delineation of study area for different projects. [7]
- 4 a) Enumerate methodology for the assessment impacts on surface water environment. [8]
b) Enumerate the generalized approach for assessment of Air pollution impacts. [7]
- 5 a) How will you assess the impacts of any developmental activity on ecology? [8]
b) What is deforestation? List the factors that contribute deforestation and suggestion to avoid deforestation [7]
- 6 a) Explain the Environmental legislation objectives for Environmental Audit as contemplated in the act. [8]
b) Write a detailed essay on audit protocol. [7]
- 7 a) Discuss various Environmental laws that are in force which are enacted since 1972 and discuss. [8]
b) Explain the role and powers of Central and State pollution control boards as stipulated in water act. [7]
- 8 a) Prepare an Environmental Impact Assessment statement for water resources project. [8]
b) Mention critical environmental components that are likely impacted due to thermal power plant. Enumerate mitigative measures needed for thermal power plant. [7]

