

Code No: 09A50107

R09

SET-1

B. Tech III Year I Semester Examinations, December-2011
ENVIRONMENTAL IMPACT ASSESSMENT & MANAGEMENT
(CIVIL ENGINEERING)

Time: 3 hours

Max. Marks: 75

Answer any five questions
All questions carry equal marks

- 1.a) What are the basic concept of EIA.
- b) What is the necessity of preparing an environmental base map? [7+8]
- 2.a) Give the criteria for the selection of EIA methodology.
- b) Give the list of environment EIA methods. [7+8]
- 3.a) Give the systemic approach for the study of environmental impact on soil.
- b) What is the necessity of delineation of study area for EIA? [7+8]
- 4.a) Give the causes and effects of deforestation.
- b) What is the necessity of delineation of study area for EIA? [7+8]
- 5.a) Explain the mitigation measure to be taken up for reducing the impact on soils by industrial activity.
- b) Give potential impact of pipeline construction on soil environment. [7+8]
- 6.a) Give the general methodology for the assessment of impacts on surface water environment.
- b) How to identity the surface water quality and quality impact by any project activity. [7+8]
7. Explain the following:
 - a) Management audit
 - b) Health and safety audit. [15]
- 8.a) Write about the Air Pollution act.
- b) Give the guidelines for integration environmental concerns in mining projects. [7+8]

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SET-2

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, HYDERABAD
B. Tech III Year I Semester Examinations, December-2011
ENVIRONMENTAL IMPACT ASSESSMENT & MANAGEMENT
(CIVIL ENGINEERING)

Time: 3 hours

Max. Marks: 75

Answer any five questions
All questions carry equal marks

- 1.a) Explain about EIA activity.
- b) How the initial environment examination helps in EIA? [7+8]
- 2.a) Give the important characteristics of simple and descriptive checklists methods.
- b) Give the advantage of scaling checklist method over simple and descriptive checklist method. [7+8]
- 3.a) Give the systemic approach for the study of environmental impact on ground water.
- b) Give the direct land – use impacts. [8+7]
- 4.a) How to carry out the impact analysis on vegetation due to railroad project?
- b) How to mitigate the potential impact on vegetation due to any project activity? [8+7]
- 5.a) How to assess the impact significance on the soil due to project activity?
- b) Explain about simple quantitative approach to study the soil impacts. [8+7]
- 6.a) What are the mitigation measures to be taken up for reducing the environmental impact on surface water quality by use of agricultural chemicals?
- b) Write the mitigation measures for reducing the impact on surface water quality by the mining activity. [7+8]
- 7.a) Write the advantages of environmental Audit.
- b) Write about the types of Audit. [7+8]
8. Explain the following:
 - a) Motor act
 - b) Wild life Act. [8+7]

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SET-3

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B. Tech III Year I Semester Examinations, December-2011
ENVIRONMENTAL IMPACT ASSESSMENT & MANAGEMENT
(CIVIL ENGINEERING)

Time: 3 hours

Max. Marks: 75

Answer any five questions
All questions carry equal marks

- 1.a) Explain the purpose of using EIA.
- b) Explain the relationship of an EIA. [7+8]
- 2.a) What are the advantages of Adhoc method?
- b) Explain the disadvantages of Adhoc method. [7+8]
- 3.a) What is the necessity of identification of activities to study the environmental impacts?
- b) Give two examples of projects which have an impact on ground water. [8+7]
- 4.a) How to mitigate the potential impact on wildlife due to any project?
- b) Explain the potential impact on recreational resources due to mining. [8+7]
- 5.a) How to collect the background information on soil environment?
- b) Explain the quantitative approach to study the soil impact due to any project activity. [8+7]
- 6.a) Give the generalized approach for assessing the Air pollution impact?
- b) How to evaluate and identify the sources, types and quantities of pollutants generated by different phases of project activity? [8+7]
- 7.a) What is environmental audit?
- b) Write the objectives of environmental audit. [7+8]
- 8.a) Describe the water act.
- b) Give the guideline for environmental aspects for river valley development project. [7+8]

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SET-4

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B. Tech III Year I Semester Examinations, December-2011
ENVIRONMENTAL IMPACT ASSESSMENT & MANAGEMENT
(CIVIL ENGINEERING)

Time: 3 hours

Max. Marks: 75

Answer any five questions
All questions carry equal marks

- 1.a) What is an EIA?
- b) What is Initial environmental examination? [7+8]
- 2.a) Explain about matrix method for environmental impact assessment.
- b) Explain the following:
 - i) Overlay method for EIA
 - ii) Cost Benefit analysis method for EIA. [7+8]
- 3.a) Explain the effects of developmental activities on five classic factors of soil formation.
- b) Explain the qualitative approach to study the groundwater impacts. [7+8]
- 4.a) Explain how to study the impact of any project on direct loss of wildlife and habitat.
- b) Explain how the high way project affects the wild life. [8+7]
- 5.a) How to identify the mitigation measures to reduce the impact on soil due to the project activity?
- b) Explain the impacts on soil by solid waste disposal site. [7+8]
- 6.a) Give the environmental effects on surface water by the thermal power plants.
- b) What is the surface water impact caused by an Pharma industry? [7+8]
- 7.a) Write about energy audit.
- b) Explain about waste audit. [7+8]
8. Explain the following:
 - a) The Environmental protection.
 - b) Role of AP Pollution control board. [7+8]

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