

Code: 9A01808

1

B.Tech IV Year II Semester (R09) Regular Examinations, March/April 2013

**ENVIRONMENTAL IMPACT ASSESSMENT & MANAGEMENT**

(Civil Engineering)

Time: 3 hours

Max Marks: 70

Answer any FIVE questions  
All questions carry equal marks

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- 1 (a) Explain main stages in EIA process.  
(b) Discuss about the need of EIA for engineering projects.
- 2 (a) Differentiate between EIA and EIS. Explain how do you prepare EIS.  
(b) Discuss about environmental indices for water and air quality.
- 3 (a) What are the environmental attributes for EIA?  
(b) How do you consider socio-economic factors in an impact prediction study?
- 4 (a) Discuss about methodologies for identification of potential environmental impacts of typical engineering projects.  
(b) Explain matrix method of EIA.
- 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.
- 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 measure for reducing the impact on surface water quality by the mining activity.
- 7 (a) Write the advantages of environmental audit.  
(b) Write about the types of AUDIT.
- 8 Explain the following:
  - (a) Motor act.
  - (b) Wild life act.

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- 1 (a) Explain about EIA activity.  
(b) Discuss the initial environmental examination helps in EIA.
- 2 Explain the following EIA methodologies:  
(a) Ad-hoc methods.  
(b) Matrix methods.  
(c) Network methods.
- 3 (a) Give the causes and effects of deforestation.  
(b) What is the necessity of delineation of study area for EIA?
- 4 (a) Differentiate between EIA and EIS. Explain do you prepare EIS.  
(b) Discuss about environmental indices for water and air quality.
- 5 (a) What are environmental impact of deforestation?  
(b) Give the causes and effects of deforestation.
- 6 (a) What are the environmental legislation objectives of environmental audit?  
(b) Explain types of environmental audit.
- 7 Explain the following:  
(a) Wild life act.  
(b) The air act.
- 8 (a) Describe the water act.  
(b) Give the guideline for environmental aspects for river valley development project.

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(Civil Engineering)

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- 1 (a) What are the environmental attributes for EIA?  
(b) How do you consider socio-economic factors in an impact prediction study?
- 2 (a) Give the important characteristics of simple and descriptive check lists methods.  
(b) Give the advantage of scaling checklist method over simple and descriptive checklist method.
- 3 (a) Give the systemic approach for the study of environmental impact on ground water.  
(b) Give the direct land-use impacts.
- 4 (a) Give the causes and effects of deforestation.  
(b) What is the necessity of delineation of study area for EIA?
- 5 (a) Explain main stages in EIA process.  
(b) Discuss about the need of EIA for engineering projects.
- 6 Explain the following EIA methodologies:  
(a) Network method.  
(b) Overlay methods and cost benefit analysis.
- 7 (a) Explain the mass balance approaches.  
(b) Explain the qualitative approaches for prediction of environmental impact of engineering projects.
- 8 (a) Write about the air pollution act.  
(b) Give the guidelines for integration environmental concerns in mining projects.

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(Civil Engineering)

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Answer any FIVE questions  
All questions carry equal marks

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- 1 Explain the following EIA methodologies:
  - (a) Ad-hoc method.
  - (b) Network method.
  
- 2 (a) Explain mass balance approaches.  
(b) Explain the qualitative approaches for prediction of environmental impact of engineering projects.
  
- 3 (a) Explain the following approaches for prediction of environmental impact of engineering approaches.  
(b) Discuss qualitative approaches.
  
- 4 (a) Give the causes and effects of deforestation.  
(b) What is the necessity of delineation of study area for EIA?
  
- 5 (a) Differentiate between EIA and EIS. Explain how do you prepare EIS.  
(b) Discuss about environmental indices for water and air quality.
  
- 6 (a) What are the environmental attributes for EIA?  
(b) How do you consider socio-economic factors in an impact prediction study?
  
- 7 Explain the environmental protection act.
  
- 8 Prepare EIA report for any industry.

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