

R13

Set No. 1

Code No: RT42012B

IV B.Tech II Semester Regular Examinations, April/May - 2017
ENVIRONMENTAL IMPACT ASSESSMENT AND MANAGEMENT
(Civil Engineering)

Time: 3 hours

Max. Marks: 70

Question paper consists of Part-A and Part-B

Answer ALL sub questions from Part-A

Answer any THREE questions from Part-B

PART-A (22 Marks)

1. a) Write the factors affecting EIA? [4]
- b) What is EIS? [3]
- c) What is Delineation? [4]
- d) How air pollutants can affect human beings directly? [4]
- e) Write about development Activities on Vegetation? [4]
- f) What is ISO? [3]

PART-B (3x16 = 48 Marks)

2. a) What are the key elements in the EIA process? Explain in detail? [8]
- b) What are the important steps in EIA? [8]
3. What is Environmental Management Plan? Discuss in detail about the requirements of an Environmental Management Plan. [16]
4. Explain about the methodology for the assessment of soil and ground water? [16]
5. a) Explain the impact on soil due to pipeline construction? [8]
- b) Give the list of different project activities which will give impact on air Environment? [8]
6. Explain the following:
(a) Wild life act
(b) The air act [16]
7. a) Explain about the Concept of ISO and ISO 14000 in EIA [8]
- b) Give your comment on the need of EIA for developing countries [8]



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Time: 3 hours

Max. Marks: 70

Question paper consists of Part-A and Part-B

Answer ALL sub questions from Part-A

Answer any THREE questions from Part-B

***** **PART-**

A (22 Marks)

1. a) What are the Elements of EIA? [4]
- b) What is EMP? [3]
- c) Write the need of GIS For EIA? [4]
- d) Write about water act? [4]
- e) Write about Environmental Risk Assessment? [4]
- f) Briefly write about Audit data? [3]

PART-B (3x16 = 48 Marks)

2. a) Discuss the importance, procedure, advantages and disadvantages of Public Hearing Process in EIA? [8]
- b) Explain about EIA activity? [8]
3. Discuss the strength, weakness and applicability of various methodologies of EIA. What are the basic criteria to select an appropriate methodology for a specific project? [16]
4. Explain how GIS system useful in assessment of impact on soil due to project activities [16]
5. Why meteorological conditions need to be studied for prediction and assessment of impacts on the air environment [16]
6. a) What is environmental impact of deforestation? [8]
- b) Give the causes and effects of deforestation [8]
7. a) What are the environmental legislation objectives of environmental audit? [8]
- b) Explain types of environmental audit? [8]



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Set No. 3

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Time: 3 hours

Max. Marks: 70

Question paper consists of Part-A and Part-B

Answer ALL sub questions from Part-A

Answer any THREE questions from Part-B

PART-A (22 Marks)

1. a) Write the stages in EIA? [3]
- b) What is quality index method? [4]
- c) Write about development activities in EIA? [4]
- d) Define Air pollution? [3]
- e) Write about risk management? [4]
- f) What are post Audit activities? [4]

PART-B (3x16 = 48 Marks)

2. a) Distinguish the scope of "Rapid EIA" and "Cumulative EIA". [8]
- b) Discuss the initial environmental examination helps in EIA. [8]
3. a) Explain about cost/benefit Analysis [8]
- b) Write the Criteria for the selection of EIA Methodology [8]
4. Explain about the application of remote sensing and GIS for EIA [16]
5. a) Write the steps involved in the EIA assessment of air environment [8]
- b) What are the legislative measures to control air pollution [8]
6. a) Write the key stages in performing an Environmental Risk Assessment [8]
- b) Discuss about Risk assessment and treatment of uncertainty [8]
7. How the cement industry causes the impact on air quality and explain the mitigation measures to reduce the impact [16]



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Set No. 4

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ENVIRONMENTAL IMPACT ASSESSMENT AND MANAGEMENT
(Civil Engineering)

Time: 3 hours

Max. Marks: 70

Question paper consists of Part-A and Part-B

Answer ALL sub questions from Part-A

Answer any THREE questions from Part-B

******* PART-**

A (22 Marks)

1. a) What is base map? [3]
- b) Write about overlay methods? [4]
- c) Write the need of remote sensing for EIA? [4]
- d) Define water pollution? [4]
- e) What is deforestation? [3]
- f) What is Environmental legislation? [4]

PART-B (3x16 = 48 Marks)

2. Explain the purpose and the process of screening in EIA [16]
3. Explain the following EIA methodologies: [16]
 - (a) Ad-hoc methods.
 - (b) Matrix methods.
 - (c) Network methods
4. a) What is the necessity of delineation of study area for EIA? [8]
- b) How do you predict the impacts of the project activity on biological environment? [8]
5. Write about biological and regulatory mitigation measures for the mitigation of biological impact [16]
6. a) Explain about the advantages of Environmental Risk Assessment [8]
- b) Write down about Network method for carrying out EIA [8]
7. Write about the powers of central government to take measures to protect and improve environmental protection act [16]



