

Code No: **RT42012B****R13****Set No. 1**

**IV B.Tech II Semester Regular/Supplementary Examinations, April - 2018**  
**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*

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**PART-A (22 Marks)**

1. a) Write on life cycle analysis. [4]  
b) What is EIS? [3]  
c) Write the developmental Activities in EIA. [4]  
d) What is Impact prediction? [4]  
e) What is Deforestation? [3]  
f) Write the objectives on Environmental legislation. [4]

**PART-B (3x16 = 48 Marks)**

2. a) Explain the role of stakeholders in the EIA preparation. [8]  
b) Define Planning. Explain environmental management planning. Give two practical examples. [8]
3. Present the Leopold matrix method in EIA and highlight its strengths and applicability. [16]
4. a) Discuss on development activities on EIA. [8]  
b) Write on delineation of study area. [8]
5. What type of soil quality parameters to be studied to assess the impact of project activity on soil environments? [16]
6. a) Define and explain EIA as a four step activity. [8]  
b) Explain the -advantages of Environmental Risk Assessment. [8]
7. Explain the concept of green building and the measures to reduce environmental impacts of construction activities. [16]

Code No: **RT42012B****R13****Set No. 2**

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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*

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**PART-A (22 Marks)**

1. a) Write briefly on environmental examination. [4]  
b) What is overlay methods. [3]  
c) Write the applications of GIS. [3]  
d) Write the mitigation measures in EIA. [4]  
e) Discuss briefly on different key stages in risk assessment. [4]  
f) Discuss concept of ISO. [4]

**PART-B (3x16 = 48 Marks)**

2. a) Explain the classification of environmental parameters. [8]  
b) Explain the Basic concept of EIA. [8]
3. Explain the importance of cost benefit and risk analysis in the decision making process of multipurpose project. [16]
4. Explain the role of 'Public Participation' in environmental assessment. Give examples. [16]
5. Provide an example of an activity that can adversely impact the air environment and suggest an appropriate mitigation action. [16]
6. a) Explain Risk assessment and treatment of uncertainty. [8]  
b) Explain assessment of Impact of development activities on Vegetation and wildlife. [8]
7. a) Give different stages of environmental audit. [8]  
b) Write about different types of environmental audit. [8]

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**R13****Set No. 3**

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(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*

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**PART-A** (22 Marks)

1. a) What is Base map? [3]
- b) What is EMP? [3]
- c) Write the difference between RS and GIS. [4]
- d) Write on Procurement of soil quality. [4]
- e) Write on Environmental Risk Assessment. [4]
- f) Discuss Concept of ISO 14000. [4]

**PART-B** (3x16 = 48 Marks)

2. a) Explain about the Initial environmental Examination. [8]
- b) Explain about the Network method Environmental Media. [8]
3. a) Explain about check list method of EIA analysis. [8]
- b) Write about quality index method for carrying out EIA. [8]
4. Explain about the methodology for the assessment of soil and ground water. [16]
5. Provide an example each for both positive and adverse environmental impacts of short term and long term duration. [16]
6. a) Explain about the predictive step method in EIA. [8]
- b) What is the purpose of post Environmental Audit? [8]
7. Describe the advantages and disadvantages for the existing environment audit Protocols. [16]

Code No: **RT42012B****R13****Set No. 4**

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(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*

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**PART-A (22 Marks)**

1. a) Write the Elements of EIA. [4]
- b) What is Quality Index? [3]
- c) What is Delineation? [4]
- d) What is Air pollution Impact? [4]
- e) Write the development Activities on wildlife. [4]
- f) What is Audit data? [3]

**PART-B (3x16 = 48 Marks)**

2. Explain about the preparation of Environmental Base map. [16]
3. Discuss Rapid Impact Assessment Matrix (RIAM) as a tool for comparison of alternatives and decision matrix. [16]
4. Give the methodology to be adopted for carrying out the impact assessment of soil due to mining. [16]
5. a) List the criteria to be considered while selecting an EIA Methodologies. [8]
- b) Explain the steps involved in planning the baseline data collection for EIA. [8]
6. a) Explain about the environmental impact of deforestation. [8]
- b) Discuss on environmental Impact of Deforestation. [8]
7. Discuss about the procedure for conducting environmental impact assessment report and write the evaluation of EIA report. [16]