

B.Tech III Year II Semester (R20) Regular Examinations August 2023
ENVIRONMENTAL IMPACT ASSESSMENT
 (Civil Engineering)

Time: 3 hours

Max. Marks: 70

PART – A
 (Compulsory Question)

- 1 Answer the following: (10 X 02 = 20 Marks)
- | | | |
|-----|---|----|
| (a) | Explain the term EIA. | 2M |
| (b) | List EIA methods. | 2M |
| (c) | Explain the term mitigation. | 2M |
| (d) | Name any three air pollution sources. | 2M |
| (e) | Discuss the different steps of a proposed model for EIA study on air environment. | 2M |
| (f) | Write about Environmental Risk Assessment. | 2M |
| (g) | What are the types of Environmental Audit? | 2M |
| (h) | What are the requirements regarding public hearing? | 2M |
| (i) | What is the purpose of post Environmental Audit? | 2M |
| (j) | Describe the process of Audit protocol. | 2M |

PART – B
 (Answer all the questions: 05 X 10 = 50 Marks)

- | | | |
|-----------|--|-----|
| 2 | Explain the preparation of Environmental Base map. | 10M |
| OR | | |
| 3 | Explain the network method of EIA. | 10M |
| 4 | Write the methodology for assessment of ground water characteristics in the study area. | 10M |
| OR | | |
| 5 | Explain in detail about impact significance and mitigation measures. | 10M |
| 6 | Explain the development activities on vegetation with example. | 10M |
| OR | | |
| 7 | Explain the common causes of deforestation around the world. | 10M |
| 8 | Discuss evaluation of audit data and preparation of Audit report. | 10M |
| OR | | |
| 9 | Write about different types of environmental audit. | 10M |
| 10 | Write about the concept of ISO and ISO14000 in detail. | 10M |
| OR | | |
| 11 | Explain the Mass balance approach for prediction of environmental impacts of engineering projects. | 10M |

B.Tech III Year II Semester (R20) Supplementary Examinations January 2024

ENVIRONMENTAL IMPACT ASSESSMENT

(Civil Engineering)

Time: 3 hours

Max. Marks: 70

PART – A
(Compulsory Question)

- 1 Answer the following: (10 X 02 = 20 Marks)
- | | |
|--|----|
| (a) Explain base map. | 2M |
| (b) Define the term EIS. | 2M |
| (c) Define the term 'Delineation' in the context of the assessment of soil and ground water. | 2M |
| (d) Define the term 'Air pollution sources' and provide two examples. | 2M |
| (e) How do water pollution sources impact the Biological Environment? | 2M |
| (f) List the impact of developmental activities on soil and ground water. | 2M |
| (g) What is an Environmental Audit? | 2M |
| (h) Write the mitigation measures in EIA. | 2M |
| (i) Discuss briefly on different key stages in risk assessment. | 2M |
| (j) Discuss concept of ISO. | 2M |

PART – B

(Answer all the questions: 05 X 10 = 50 Marks)

- 2 Present the Leopold matrix method in EIA and highlight its strengths and applicability. 10M
- OR**
- 3 Explain about the Network method Environmental Media. 10M
- 4 Provide an example of an activity that can adversely impact the air environment and suggest an appropriate mitigation action. 10M
- OR**
- 5 Explain about the methodology for the assessment of soil and ground water. 10M
- 6 Explain the assessment of Impact of development activities on Vegetation and wildlife. 10M
- OR**
- 7 Explain about the environmental impact of deforestation. 10M
- 8 Give different stages of Environmental Audit. Discuss. 10M
- OR**
- 9 Write about different types of Environmental Audit. Explain. 10M
- 10 Describe the advantages and disadvantages for the existing Environment Audit Protocols. 10M
- OR**
- 11 Discuss about the procedure for conducting environmental impact assessment report and write the evaluation of EIA report. 10M

B.Tech IV Year I Semester (R20) Advanced Supplementary for MOOCs (Conventional mode) Examinations July 2024

ENVIRONMENTAL IMPACT ASSESSMENT

(For 2020 Regular & 2021 Lateral Entry admitted batches only)

Time: 3 hours

Max. Marks: 70

PART – A

(Compulsory Question)

1 Answer the following: (10 X 02 = 20 Marks)

- | | |
|---|----|
| (a) Write the Elements of EIA. | 2M |
| (b) What is Base map? | 2M |
| (c) What is overlay methods? | 2M |
| (d) Write the developmental Activities in EIA. | 2M |
| (e) What is Impact prediction? | 2M |
| (f) Write the mitigation measures in EIA. | 2M |
| (g) Write on Environmental Risk Assessment. | 2M |
| (h) Discuss briefly on different key stages in risk assessment. | 2M |
| (i) Discuss concept of ISO. | 2M |
| (j) What is Audit data? | 2M |

PART – B

(Answer all the questions: 05 X 10 = 50 Marks)

- | | | |
|-----------|---|-----|
| 2 | How an Initial environmental examination helps for a full-scale EIA? Explain in detail. | 10M |
| OR | | |
| 3 | Explain about the identification steps in EIA. | 10M |
| 4 | Explain the Leopold matrix in detail with suitable example. | 10M |
| OR | | |
| 5 | Explain the methodology for prediction and assessment of impacts on soil with neat flow sheet. | 10M |
| 6 | Discuss the Identification and incorporation of mitigation measures for soil. | 10M |
| OR | | |
| 7 | Give the formula for (i) Relative dominance, (ii) Relative frequency and Relative density in biological assessment. | 10M |
| 8 | Explain the Impact of development Activities on Vegetation and wildlife. | 10M |
| OR | | |
| 9 | Explain the battle environmental evaluation system for assessment of impacts with suitable examples. | 10M |
| 10 | Explain in detail the ecological monitoring and audit programme. | 10M |
| OR | | |
| 11 | Explain Water (Prevention and Control of Pollution) Act, 1974. | 10M |
