

Code: 15A01804

B.Tech IV Year II Semester (R15) Advanced Supplementary Examinations July 2019

**ENVIRONMENTAL IMPACT ASSESSMENT & MANAGEMENT**

(Civil Engineering)

Time: 3 hours

Max. Marks: 70

**PART – A**

(Compulsory Question)

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- 1 Answer the following: (10 X 02 = 20 Marks)
- Write the basic concept of EIA.
  - What do you mean by Environmental Base map? Explain.
  - What is the significance of overlay method in comparison with quality index method?
  - What do you mean by EIA methodologies? Explain.
  - How do you test the soil quality?
  - Write few air pollution sources.
  - Write few demerits of deforestation.
  - What do you mean by environmental audit?
  - Write salient points in Prevention & Control of pollution Act (The Air Act).
  - What do you mean by Environmental Protection Act?

**PART – B**

(Answer all five units, 5 X 10 = 50 Marks)

**UNIT – I**

- 2 (a) Discuss briefly the elements of EIA.  
(b) Explain the classification of Environmental parameters.
- OR**
- 3 (a) Explain briefly the principles of EIA.  
(b) Discuss briefly the factors affecting EIA impact valuation and analysis.

**UNIT – II**

- 4 (a) What is quality index method? Explain briefly the salient points in this method.  
(b) Discuss briefly the criteria for the selection of EIA methodology.

**OR**

- 5 Explain briefly the following in connection with EIA methodologies:
- Ad-hoc methods.
  - Matrix methods.

**UNIT – III**

- 6 (a) What do you mean by impact prediction? Discuss briefly the assessment of impact significance.  
(b) Explain the generalized approach for assessment of Air pollution Impact.

**OR**

- 7 (a) Discuss briefly about identification and incorporation of mitigation measures.  
(b) Explain briefly about EIA in surface water, Air and Biological environment.

**UNIT – IV**

- 8 (a) Discuss in detail the assessment and developmental activities on vegetation and wild life.  
(b) Write a short note on evaluation of Audit data and preparation of Audit report.

**OR**

- 9 (a) Write detailed note on causes and effects of Deforestation.  
(b) Discuss briefly the objectives of Environmental Audit.

**UNIT – V**

- 10 Discuss in detail about Water prevention Act.

**OR**

- 11 (a) Discuss briefly about post Audit activities.  
(b) Write short notes on Wild life Act and Noise Act.