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R15

B.Tech IV Year II Semester (R15) Regular Examinations April 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)

(a) List out the key features of national environmental policy Act.
(b) Write a short note on screening.
(c) List out the latest software in water and air quality modeling.
(d) Write a short note on fault-tree analysis.
(e) What do you mean by the checklist method of impact assessment?
(f) Brief the various types of Socio-economic impacts.
(g) Write a note on standards for noise quality.
(h) Briefly explain the impact of development on vegetation and wild life.
(i) Explain about scoping step.
(j) What specific aspects does a good EIA report and review include?

PART – B

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

UNIT – I

2 Explain the role of environmental inventory in assessing the forest ecosystem for the development of hydropower project in your area.

OR

3 Describe the various socio-economic impacts in decision making of environmental projects.

UNIT – II

4 Describe the role of artificial intelligence in EIA related projects.

OR

5 Elaborate the various EIA methods in assessing surface and ground waters.

UNIT – III

6 Describe the concept of Welfare economics.

OR

7 Describe the various EIA methods in establishing thermal power plant.

UNIT – IV

8 How do you assess the soil micro flora and fauna and soil microclimate? Explain in detail.

OR

9 What do you mean by carrying capacity of an ecosystem? List any two examples.

UNIT – V

10 What do you mean by cleaner production technology? Discuss with examples.

OR

11 Describe the evolution of EIA in India.

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