

Roll No. Total Pages : 3

002605

May 2024

B.Tech. (Civil Engineering)-VI Semester

Environmental Impact Assessment

(PEC-CED302-1)

Time : 3 Hours]

[Max. Marks : 75


Instructions :

1. *It is compulsory to answer all the questions (1.5 marks each) of Part-A in short.*
2. *Answer any four questions from Part-B in detail.*
3. *Different sub-parts of a question are to be attempted adjacent to each other.*

PART-A

1. (a) What should be the important objectives of an effective EIA? (1.5)
(b) What is rapid EIA? (1.5)
(c) Define sustainable development. (1.5)
(d) List the various types of data required to describe existing environmental conditions for impact assessment. (1.5)
(e) What is meant by an environmental management plan? (1.5)
(f) Why EIA is needed for infrastructure developmental projects? (1.5)

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- (g) What is life cycle assessment? (1.5)
- (h) What are the impacts of a highway project on local air quality? (1.5)
- (i) What are the mitigative measures to be taken during the operational phase of an airport construction project? (1.5)
- (j) What is the significance of post environmental audit? (1.5)

PART-B

- 2. Explain the different EIA methodologies. (15)
- 3. (a) Explain the significance of public participation in EIA. (5)
(b) Explain the various steps in EIA process with the help of a flow chart. (10)
- 4. (a) Give details of environmental clearance process in India with time involved in each step. (10)
(b) Write a detailed note on role of EIA as an approach to achieve sustainable development. (5)
- 5. (a) Explain EIA is an integral part of the planning and decision-making process. (10)
(b) Explain how to predict the impact of a highway project on air quality? (5)
- 6. (a) What are the benefits of environmental auditing?(5)
(b) What topics does ISO 14001:2015 cover and explain the stages. (10)

- 7. (a) Explain the significance and contents of Environment Protection Act 1986. (5)
(b) Explain the Water Act, 1974. (10)