

B.Tech. CIVIL ENGINEERING (BTCLEVI)

Term-End Examination

June, 2017

00974

**BICEE-014 : ENVIRONMENT IMPACT ANALYSIS OF
CIVIL ENGINEERING PROJECTS**

Time : 3 hours

Maximum Marks : 70

Note : Answer any *five* questions. All questions carry equal marks.

1. (a) With the help of a block diagram, explain the components of EIA process. 8
- (b) What is National Environmental Policy Act (NEPA) ? Highlight its key features. 6
2. (a) Explain in detail, the planning and management of environmental impact studies. 7
- (b) Explain in detail, the various guidelines for assessing impact of dams. 7

3. (a) Explain in detail, the matrix method of impact identification. 7
- (b) With the help of a case study, explain the prediction and assessment of impact of the project on ground water. 7
4. (a) What is Environmental monitoring ? Explain in detail the various environmental monitoring processes. 7
- (b) Explain the decision methods for evaluation of various alternatives for a proposed action. 7
5. (a) With the help of a case study or giving an example, explain the process of prediction and assessment of impact on soil environment. 7
- (b) Explain the procedure of prediction and assessment of impact on air quality. 7
6. (a) Discuss the role of the "Impact Assessment Department" of an organization and CPCB in the EIA process. 7
- (b) Discuss the environmental problems in India including deforestation and illegal wildlife trade. 7

7. Write short notes on any *four* of the following :

$$4 \times 3 \frac{1}{2} = 14$$

- (a) Environmental Indices
 - (b) Environmental Impact Statement (EIS)
 - (c) Environmental Audit
 - (d) Environmental Setting
 - (e) Scope of EIA process
 - (f) Screening in EIA process
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