

[01 - 3215]

III/IV B.E. DEGREE EXAMINATION.

Second Semester

Civil Engineering

Elective I (A) — ENVIRONMENTAL IMPACT
ANALYSIS

(Common with Civil Environmental Engineering and
Dual Degree in Civil Engineering)

(Effective from the admitted batch of 2007–2008)

Time : Three hours

Maximum : 70 marks

Question No. 1 is compulsory.

Answer any FOUR from the remaining.

All questions carry equal marks.

1. (a) What is difference between EIA and EIS?
- (b) What do you mean by "Agency activities in EIA"?
- (c) What are primary and secondary impacts?
- (d) Differentiate between Network and matrix methods.
- (e) What is the difference between prediction of impact and evaluation of impact?

- (f) What purposes are served by impact statements?
- (g) What do you understand the term "Screening in the EIA process"?
2. (a) Explain the need for EIA for Engineering projects.
- (b) What are the advantages of an existing EIA?
3. (a) Explain the significance of environmental setting in a EIA study.
- (b) Discuss about the systematic approach for identifying direct, indirect and ultimate impacts of the proposed development project with a neat diagram.
4. (a) How do you identify various potential environmental impacts resulting from an Engineering project?
- (b) Explain clearly the environmental impact, mitigation and control measures.
5. (a) What do you understand by the term "Cost benefit analysis"? Explain how it is related to EIA studies.
- (b) Explain the Battelle environmental evaluation system for water projects.

6. (a) Draw a flow chart showing the major role players and main steps to be taken in carrying out the EIA process in our country.
 - (b) Describe the physical, chemical and biological attributes with reference to water quality environment.
 7. Describe in brief the Environmental Impact Assessment of thermal power plant.
 8. Write short notes on :
 - (a) Economic Impact Analysis
 - (b) Environmental Management Plan
 - (c) Environmental attribution of soil.
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