

Second Semester M. E. (Civil) (Transportation Engg. and Management) Examination

**ENVIRONMENTAL IMPACT ASSESSMENT**

2 SFTR 3

P. Pages : 2

Time : Three Hours]

[Max. Marks : 80

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- Note :** (1) Due credit will be given to neatness and adequate dimensions.  
(2) Assume suitable data wherever necessary.  
(3) Illustrate your answer wherever necessary with the help of neat sketches.  
(4) Answer any **Five** questions.  
(5) Use pen of Blue/Black ink/refill only for writing the answer book.

1. Attempt any **Two** questions :—

- (a) Explain the concepts and objective of Environmental impact analysis. 8
- (b) Explain how environmental protection act (EPA) benefited EIA. 8
- (c) Discuss about the need of EIA for engineering project. 8

2. (a) Explain Matrix method of EIA. 8
- (b) Explain planning and management for environmental impact studies. 8

3. Attempt any **Two** questions :—

- (a) Explain Air (Prevention and control of pollution) Act 1981. 8
- (b) Explain various sources and its effect of air pollutants on environment. 8
- (c) Suggest mitigating measures for the various effects of Air pollutants. 8

4. Attempt any **Two** questions :—

- (a) Define noise and how will you assess significance of impact of noise ? Give the acceptable levels of noise for the following :—
  - (i) Commercial Area
  - (ii) Residential Area

(iii) Institutional Area

(iv) Industrial Area. 8

(b) Explain Noise pollution (Regulation and control) Rules 2000. 8

(c) How will you suggest mitigating measures on noise pollution. 8

5. Attempt any **Two** questions :—

(a) How the matrix method helps the project planner ? 8

(b) How do you consider socio-economic factors in an impact prediction study ? 8

(c) How to evaluate and identify the sources, types and quantities of pollutants generated by different phases of highway construction activity ? 8

6. Attempt any **Two** questions :—

(a) What is meant by environmental tribunal ? 8

(b) Explain the various stages involved in environmental impact assessment process. 8

(c) Explain the role of verbal communication in EIA studies. 8

