

A 1112

B.E./B.Tech. DEGREE EXAMINATION, MAY/JUNE 2007.

Eighth Semester

Civil Engineering

CE 434 — ENGINEERING SOCIOLOGY

Time : Three hours

Maximum : 100 marks

Write the correct question number and answer.

Write neatly and legibly.

Answer ALL questions.

Answer briefly and precisely to the point.

PART A — (10 × 2 = 20 marks)

1. Define the term Civilisation.
2. What is Engineering Sociology? Why it is important for civil engineers?
3. State any two characteristics of Society.
4. What is the principle of evolution of Society?
5. What do you understand by the term industrial revolution?
6. Enumerate any two impacts of industrial revolution on the society.
7. Distinguish between knowledge and information revolution.
8. Bring out any two differences in the characters of rural and urban area.
9. Why is it important for civil engineers to consider societal needs?
10. Define the term Professional Ethics in the context of civil engineering.

PART B — (5 × 16 = 80 marks)

11. (a) Trace the historical perspective of civilisation in India. (16)

Or

- (b) Explain with suitable examples how personal or individual needs and societal needs are related to development of technology. (16)
12. (a) Describe the evolution of society focussing on salient features of various societies starting from ancient to modern. (16)

Or

- (b) Development of Science and Technology was based on societal needs. Substantiate this statement by drawing examples from ancient civilisations. (16)
13. (a) Briefly explain the technological changes and their influence on social, economic and political systems between any two societies. (16)

Or

- (b) Distinguish in a tabular form any four salient features of agriculture and industrial societies. (16)
14. (a) Describe any four salient features in detail each of knowledge and information revolution. (16)

Or

- (b) Discuss the basic influence of knowledge and information revolution on any two strategies each rural and urban development. (16)
15. (a) Discuss the evolution of any one discipline of civil engineering from ancient to modern times. (16)

Or

- (b) Suppose you are a civil engineer working in any of the government department, explain with suitable examples how would you interact with the society at different stages of planning to implementation of a project. (16)