



B.E./B.Tech (Part Time) DEGREE ARREAR EXAMINATIONS, NOV/ DEC 2013

CIVIL ENGINEERING

SEVENTH SEMESTER

PTCE 434 - ENGINEERING SOCIOLOGY

(REGULATION 2002)

Time : 3 hr

Max Mark : 100

Instructions: 1. In part - B question no. 11 is compulsory.

Answer All Questions

Part – A (10x2=20 Marks)

1. Define Engineering Sociology.
2. Write the importance of social processes.
3. Write a short note on human development.
4. Write briefly about Industrial Revolution.
5. What is Mechanization?
6. What is meant by Technology Transfer?
7. Write briefly the difference between community and society.
8. Briefly explain the term 'participatory'.
9. Write short note on Participatory Technology Development.
10. List down any three social thinkers and their contribution to sociological theories?

Part – B (5x16=80 Marks)

11. Discuss the need of extensive mechanization for the agrarian society in the light of challenges we face with liberalized economy.
12. a.i. What is social transition? Describe the different stages of development that ushered human development. 10
- ii. Explain the role of globalization in technology transfer in the developing countries. 6
- or
- b.i. Explain the role of civil engineering in the global and societal concern. 8
- ii. Discuss the differences in the application of development strategies in rural and urban areas. 8

13. a.i. Explain the need of science and technology for rural community development. 8
ii. Elucidate Marxian ideologies with special reference to class conflict. 8
or
b.i. Explain the roles of technology in social empowerment. 16
14. a. Explain the limits of technological solutions in sustainable development. 16
or
b.i. Exemplify the relationship between the individual and society. 10
ii. Elaborate the moral principles that apply to the practice of engineering ethics. 6
15. a. Explain with example the social changes which occur in the context of social, economic and political system. 16
or
b.i. Explain the relevance of the application of sociology in engineering domain. 10
ii. Explain how do value systems influence ethics in professionalism? 6