



**SEM 2 – 6 (RC 07-08)**

**F.E. (Semester – II) (Revised Course 2007-08)**  
**Examination, May/June 2016**  
**ENVIRONMENTAL AND SOCIAL SCIENCE**

Duration : 3 Hours

Max. Marks : 100

- Note :** 1) Answer total **4 full** questions selecting at least **one** question from **each** Module.  
2) **Each** question carry total of **25** marks.  
3) Use **separate** answer booklets for **each** Section.

**SECTION – I**  
**Environmental Engineering**

**Module – I**

1. a) What are the objectives of environmental studies in higher and engineering education in India ? 5  
b) What are the effects of deforestation ? Give detailed account of effects of deforestation. 8  
c) Explain different cause of water quality degradations. 12
2. a) What are the effects of mining on the environment and list the remedial measures that can be taken to reduce the effect ? 8  
b) State and explain the methods used to prevent soil loss due to erosion. 9  
c) Explain Grassland ecosystem and Pond ecosystem. 8

**Module – II**

3. a) What is air pollution ? List and explain the effects of air pollution. 15  
b) Write short notes on : 10
  - i) Effects of noise pollution
  - ii) Disposal of solid wastes.
4. Write notes on : 25
  - i) Acid rain
  - ii) Rain water harvesting
  - iii) Forest conservation.

P.T.O.





SECTION – II  
Social Science

Module – III

5. a) Define 'personality'. Explain personality with reference to achievement motivation, needs and agreeableness. 10
- b) Define 'stress'. State how stress experienced by a college going student is different from the one experienced by an adult post-college years. 7
- c) Write short notes on **any two** of the following : (4+4)
- i) Expectancy theory of motivation.
- ii) Elaborate on two attributes of a positive life.
- iii) Four distinguishing points : Cooperation Versus competition.
6. a) Prepare on your own a six point code of conduct showcasing responsibility towards the profession of engineering. Elaborate with rationale on each of the code prepared. 10
- b) Define the concept of 'Empowerment' – Mention a few measures taken to empower women. 7
- c) Dwell on the concept of 'Team' with reference to the following – Team building, communication skills, and role of a team leader. 8

Module – IV

7. a) What are the things you wish to learn from education which today's education system lacks ? 10
- b) What does 'culture' mean to you ? State how it influences one's music, food, language and clothing ? 8
- c) Define Globalisation. State the merits and demerits of globalisation. 7
8. a) Define 'social science'. State how different the current course on social science was compared to the social science you studied in school. 10
- b) Is it possible to live in a world without religion ? Give reasons for your answer. 7
- c) Does education promote talent or stifle it ? Give reasons for your answer. 8