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## SEM 2 – 6 (RC 07-08)

### F.E. (Semester – II) (Revised in 2007-08) Examination, May/June 2015 ENVIRONMENTAL AND SOCIAL SCIENCE

Duration : 3 Hours

Total Marks : 100

- Instructions :** i) Answer total **four** questions and **each** question of **25** marks.  
ii) Atleast **one** question is **compulsory** from **each Module**.  
iii) Use **separate** answer books for **Section I** (Env. Science) and **Section – II** (Social Science).

#### SECTION – I

##### Module – I

1. a) What are the objectives of environmental education ? 5  
b) What are the effects of deforestation ? Draw the flow diagram showing the effects of deforestation. 8  
c) Explain world food problems. What are the changes caused by overgrazing and agriculture in crop production ? 12
2. a) What are the effects of mining and what are the remedial measures that can be taken ? 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. a) Write notes on : 9
  - i) Acid rain. 8
  - ii) Rain water harvesting. 8
  - iii) Water conservation. 8

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## SECTION – II

## Module – III

5. a) Define 'personality'. State how differently a human being is viewed by the humanistic theorists which is in sharp contrast to the psychoanalytic school of thought. 10
- b) What do you mean by 'positivity' ? Mention and elaborate five ways in which positivity manifests itself. 7
- c) Write short notes on **any two** of the following : (4+4)
- i) Job stress and the women
  - ii) Achievement motivation
  - iii) Professional work ethic.
6. a) We need to focus on 'Gender Equality' rather than the idea of empowering man or women. Comment on the truth of the statement with reference to everyday life examples. 10
- b) Define 'responsibility'. Mention the challenges and responsibilities of the profession of engineering. 8
- c) What does the word 'team' mean to you ? State how co-operation and interpersonal skills are needed in a team ? 7

## Module – IV

7. a) Provide for two definitions of 'education'. What according to you are the limitations of education ? 10
- b) How are the two concepts 'Globalization' and 'Culture' inter-related ? 7
- c) Define culture. State the advantages and disadvantages of cross-cultural imitation. 8
8. a) The study of the philosophy of social sciences is as relevant to an engineering student as the study of any other sciences. Comment on the significance of the statement with reference to the subject you have studied and connect it to everyday life examples. 10
- b) What does 'Religious tolerance' mean ? Mention a few measures that need to be taken to promote religious harmony. 7
- c) You have opened a school of your own for students of Standard VIII to Standard X. State and elaborate a few measures you would take up to ensure that learning is fun and delight, not laborious and boring. 8