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F.E. Semester-II (Revised Course 2007-2008)
EXAMINATION Nov/Dec 2019
Environmental & Social Sciences

[Duration : Three Hours]

[Total Marks : 100]

Instructions:

- 1) Answer four questions by **selecting one question** from each module (is compulsory)
- 2) Make suitable assumptions wherever necessary if required and state them clearly
- 3) Substantiate your answers with neat sketches wherever necessary
- 4) Figures to the right indicate full marks allotted to the questions
- 5) Answer total four questions but at least one questions is compulsory from each module
- 6) Use separate answer books for section – I (environmental science) and section – II (Social science)
- 7) Section – I consists of Module I and II, section – II consists of Module III and IV

Section I (Environmental Science)

Module – I

Questions No.1

- | | |
|---|----|
| a) What are the ill effects of deforestation on eco system? | 07 |
| b) What are ecological pyramids? Explain the terms pyramid of numbers, Pyramid of Mass and pyramid of energy? | 10 |
| c) How droughts are classified? | 03 |
| d) List the sources responsible for degradation of water quality. | 05 |

Questions No.2

- | | |
|---|----|
| a) What is soil acidification? How does it happen? State the possible remedies you propose. | 08 |
| b) State measure to solve world food problems. | 07 |
| c) List the functions of disaster management cell under the state governments. | 05 |
| d) Differentiate between Fog and Smog. Explain how smog forms. | 05 |

Module – II

Questions No.3

- | | |
|--|----|
| a) It is time to depend on renewable sources of energy –Substantiate this statement . | 10 |
| b) What is acid rain? How to prevent the same? What measures do you suggest with respect to Transport system to prevent this phenomenon. | 10 |
| c) How air pollutants are classified? Explain what are secondary pollutants? | 05 |



Questions No.4

- a) What is rain water harvesting? Explain with a neat diagram "Roof top rain water harvesting" **10**
- b) What is EC? What is its significance as applied to Mega projects. **08**
- c) Explain the Need for Ozone layer protection. **07**

Section- II
(Social Science)

Module – III

- 5 A) What do you understand by the term Personality? What are the Big 5 dimensions of personality? **(10)**
- B) Compare the stresses of a college student and that of an adult. How are they different? **(7)**
- C) Write short notes on any two. **(4+4)**
- i) Goal Setting theory of Motivation
- ii) How can one be positive
- iii) Disadvantages of working as a team
- 6 A) What are the social responsibilities of an engineer? **(10)**
- B) What are some of the business etiquettes that must be followed in an organization? **(7)**
- C) What is your understanding of women Empowerment? **(8)**

Module – IV

- 7 A) What are some of the positives of the Indian Education System? **(10)**
- B) What is your understanding of culture? **(7)**
- C) What are the demerits of Globalization? **(8)**
- 8 A) What is the importance of studying a subject like Social Science? **(10)**
- B) How can we improve the Indian Education System? **(8)**
- C) What do you understand by Enculturation and Acculturation? **(7)**