

Total No. of Printed Pages:2

**F.E. (Sem - II) (Revised Course 2016-17)  
EXAMINATION Nov/Dec 2019  
Environmental Sciences and Social Sciences**

**[Duration : Three Hours]**

**[Total Marks : 100]**

**Instructions:**

- i) Use separate answer books for Section – I and (Env. SC.) and for Section – II Social Science.
- ii) Answer total 3 question from Section I –  $20 \times 2=40$  and  $10 \times 1=10$  total 50 marks. For Section II –  $20 \times 2=40$  and  $10 \times 1=10$  total 50 marks.
- iii) Answer **any 2** questions each from Part A and Part C and **any 1** question **each** for Part B and Part D.
- iv) Please don't mix the answers of different Sections.
- v) Figures to the right indicate full marks assigned to that question
- vi) Make suitable assumptions wherever necessary if required and state them clearly.
- vii) Substantiate your answers with neat sketches wherever necessary.

**SECTION-I (Environmental Science)**

**PART-A (Answer Any Two questions)**

**Question No.1**

- a) World food problem- a global threat: what vision and mission to be adopted in tackling this problem in your view. **10**
- b) What are ecological pyramids? How deforestation affect these pyramids. **10**

**Question No.2**

- a) What are the functions of Disaster management Cell? Explain the role of SPCBs in monitoring state level issues. **10**
- b) Explain the necessity of segregation of solid wastes before their treatment. Explain the need and necessity of maintaining ozone layer. **10**

**Question No.3**

- a) World food problem- a global threat: what vision and mission to be adopted in tackling this problem in your view: **10**
- b) State various advantages and disadvantages of using renewable and non-renewable resources. **10**

**PART-B (Answer Any One question)**

**Question No.4**

Explain the concept of acid rain and its effects with examples. **10**





**Question No.5**

What are renewable and non-renewable resources ? What causes soil erosion and how to prevent it?

10

**SECTION-II (Social Science)**

**PART-C**

Answer any two Questions from the following:

2x20=40

- Q6 a) Explain the nature and causes of stress experienced by an adolescent and state how different it is from adult stress. (10)
- b) Explain the phrase 'organized Collective action' and 'Seeking change' with referent to Civil Society movements. (10)
- Q7 a) State the 'interactionist' view of personality. Elaborate in detail the twin aspects of a successful personality – 'emotional maturity' and 'openness to experience'. (10)
- b) Would you like to bring down all blackboards in your institute classrooms in favour of digital boards? Analyse the situation and give reasons for your answer. (10)
- Q8 a) Write short notes on any two of the following: 2x5=(10)
- i) Positivity versus Negativity. (three distinguishing points)
  - ii) Is Religion anti-rational? (your point of view)
  - iii) The importance of a counsellor in engineering institutes.
- b) Define 'team'. Elaborate in detail the important stages of the team building process. (10)

**Part – D**

Answer any one of the following Questions:

1x10=10

- Q9 Elaborate on any three technical and three Social responsibilities of the Engineer towards his profession and Society. (10)
- Q10 Detail the changes and the ill effects brought about by globalization. (10)