

ENVIRONMENTAL STUDIES

I - SEMESTER 2017 - 18

(Total 30 Hours)

Unit - I : Natural Resources : **6 Hrs**

Definition, scope and importance. Need for public awareness:

- a. Forest resources: Uses and over-exploitation. Deforestation, mining and construction of dams.
- b. Water resources: Uses and over-utilization. Effects of over utilization of surface and ground (sub- surface) water.
- c. Mineral resources: Uses and exploitation, environmental effects of extraction and use of mineral resources.
- d. Food resources: World food problems, Effects of modern agriculture: by using fertilizers and pesticides.
- e. Energy resources: Growing energy needs, renewable and non-renewable energy sources, use of alternate energy sources.

Unit - II : Ecosystems and Biodiversity **6 Hrs**

- a. Concept of an ecosystem
- b. Structure and functions of an ecosystem
- c. Producers, consumers and decomposers
- d. Food chain, food webs and ecological pyramids
- e. Characteristic features of the following ecosystems
Forest ecosystems, Desert ecosystem, Aquatic ecosystems.
- f. Value of biodiversity: Consumptive use and productive use.

Unit - III: Environmental Pollution **6 Hrs**

- a. Definition
- b. Causes, effects and control measures for
 - i. Air pollution
 - ii. Water pollution
 - iii. Soil pollution
 - iv. Noise pollution
- c. Role of individual in prevention of pollution

Unit - IV: Social Issues and the Environment **6 Hrs**

- a. Water conservation, rain water harvesting and watershed management.
- b. Global warming and Ozone layer depletion.
- c. Environmental protection Act

(P T O)

Unit – V: Human Population and the Environment

6 Hrs

- a. Population explosion and its impact on environment.
- b. Environmental and human health
- c. Women and Child Welfare
- d. Role of Information Technology in Environmental and human health.

Reference Books :

1. Environmental Studies by Dr. M. Satyanarayana, Dr. M.V.R.K. Narasimhacharyulu, Dr. G. Rambabu and Dr. V. Viveka Vardhani Published by Telugu Academy, Hyderabad.
2. Environmental Studies by R.C. Sharma, Gurbir Sangha published by Kalyani Publishers.
3. Environmental Studies by Purnima Smarath published by Kalyani Publishers.

SRI VENKATESWARA UNIVERSITY : TIRUPATI
ENVIRONMENTAL STUDIES
I - SEMESTER
MODEL QUESTION PAPER 2017-18

Answer ALL questions choosing one from each unit
Each question carries TEN marks

Time : 2 hrs
Marks : 5 x 10 = 50

UNIT - I

1. Write a short note on Forest resources and its importance
(OR)
2. Explain the importance of renewable energy and its applications.

UNIT - II

3. Explain the term "Biodiversity" and discuss its importance.
(OR)
4. Write note on structure of ecosystems. Explain the significance of Forest ecosystems with suitable example.

UNIT - III

5. Define water pollution and control measures to be adopted.
(OR)
6. Explain the causes and effects of air pollution.

UNIT - IV

7. Write a note on global warming.
(OR)
8. What is Environmental Protection Act. Explain its importance.

UNIT - V

9. Discuss the population explosion and its impact on environment.
(OR)
10. How do you predict the environmental changes by the use of Information Technology.