B. Tech. (Sem. II)
SPECIAL CARRYOVER EXAMINATION, 2006-07
ENVIRONMENTAL STUDIES

Time : 3 Hours] [Total Marks : 100

Notes : (1) Attempt all questions.
(2) All questions carry equal marks.

1 Attempt any four parts of the following : 5×4=20

(a) What is meant by an environment? Enumerate and discuss its various elements. Describe the details of any one of them.

(b) Name different sources of water. Discuss their characteristics and quality. Also quote examples of their availability.

(c) What is meant by mineral resources? Write a detailed note on mineral resources of India.

(d) What changes do the agricultural activities cause in environment? Discuss the effects of over grazing on environment.

Z-9926] 1 [Contd...
(e) Describe various alternative energy sources and their use.

(f) Enumerate the role of an individual in conservation of natural resources.

2 Attempt any two parts of the following: \(10 \times 2 = 20\)

(a) What are the roles of producers, consumers and decomposers in an ecosystem? Quote their examples and differentiate amongst their necessities.

(b) Define an ecological pyramid and its various types.

(c) What are the important characteristics of natural and artificial ecosystems?

3 Attempt any two parts of the following: \(10 \times 2 = 20\)

(a) Differentiate between the social ethical, aesthetic and option values of biodiversity, quoting suitable illustrations.

(b) What are the various human actions? Which are responsible for extinction of species. Discuss also the causes that have posed threats to biodiversity.

(c) What are ‘hotspots’ of biodiversity? Discuss their significance. Explain the hotspots that extend into India.

Z-9926] 2 [Contd...
4 Attempt any two parts of the following: \( 10 \times 2 = 20 \)

(a) Suggest measures to control air pollution. Name various devices used for this purpose and explain the working of any one of them with the help of a suitable sketch.

(b) Enumerate various effects of soil pollution. How do industrial, agroproducts and pesticides deteriorate the soil.

(c) What are ‘solid wastes’? and What are their different types? Discuss their effects.

5 Attempt any four parts of the following: \( 5 \times 4 = 20 \)

(a) What are various problems of family welfare programme?

(b) What is meant by ‘value’ and ‘value education’? Discuss their concept with the help of suitable illustrations.

(c) Discuss the salient features of the Wildlife Protection Act, 1972.

(d) Discuss briefly the salient features of the water (Prevention and Control of Pollution) Act, 1984.

(e) Describe the scenario of human right in India.

(f) Write short note on population explosion.