

5259

B.Tech. Examination, 2013

(First Semester)

(All Branch)

ENVIRONMENTAL AND ECOLOGY- I

Paper - VI

Time : Three Hours]

[Maximum Marks : 100

Note :- Attempt any **five** questions. **All** question carry equal marks.

1. (a) Describe the various kinds of energy resources. Distinguish between renewable and non-renewable energy resources.
(b) Explain scope and importance of environmental studies.
2. (a) What do you mean by deforestation? Explain its causes and effects.
(b) Discuss the structure and function of an ecosystem in detail.
3. (a) What is biodiversity? Explain 'In-situ' and Ex-situ' approaches of conservation of biodiversity.

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- (b) Describe the effects of modern agriculture on environment.
4. (a) What is ecological succession? Describe the causes and basic types of ecological succession.
- (b) What are food chains and food webs? Give examples and discuss their significance.
5. (a) What do you mean by ecological pyramids? Explain various types of ecological pyramids with examples.
- (b) Write the short note on any **two** of following :
- (i) Forest Ecosystem
 - (ii) Grassland Ecosystem
 - (iii) Pond Ecosystem
6. (a) Describe the uses and importance of biodiversity.
- (b) What are hot spots of biodiversity? Name the hot spots found in India. Discuss it.
- (a) Explain the uses of solar energy.
- (b) Discuss the benefits and problems of dams.