

(Following Paper ID and Roll No. to be filled in your Answer Book)

PAPER ID : 9926

Roll No.

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B. Tech.

(SEM. II) THEORY EXAMINATION 2010-11

ENVIRONMENTAL STUDIES

Time : 3 Hours

Total Marks : 100

Note : Attempt all questions. Each question carries equal marks.

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

- (a) What is an environment ? Enumerate and discuss the various segments of environment in brief.
- (b) What is deforestation ? Enumerate and discuss the various causes of deforestation.
- (c) Discuss the importance and flow of energy in the ecosystem.
- (d) Briefly describe the importance of biodiversity.
- (e) What is air pollution ? What are its effects on human health ?
- (f) Discuss the phenomenon of "Green House Effect". What are its effects ?

2. Attempt any four parts of the following : (4×5=20)

- (a) What is meant by the term "Population Explosion" ? Enumerate the problems associated with it.

- (b) Differentiate between renewable and non-renewable energy sources.
- (c) Define an ecological pyramid and its various types.
- (d) What is water pollution ? Briefly discuss the major sources of water pollution.
- (e) What is acid rain ? What are its causes ?
- (f) Briefly discuss the salient features of the Forest (Conservation) Act, 1980.

3. Attempt any two parts of the following : (2×10=20)

- (a) Define food chain. Name and explain various types of food chains with suitable examples.
- (b) What is noise pollution ? What is its unit of measurement ? What are the various effects of noise pollution ?
- (c) Briefly discuss the salient features of the Environment (Protection) Act, 1986.

4. Attempt any two parts of the following : (2×10=20)

- (a) What is meant by environment ? Enumerate and discuss its various elements.
- (b) What is soil pollution ? What are its various sources ? How does it affect the agricultural production and water sources ?

- (c) What is ozone hole ? How does it form ? What are its causes and effects ? Suggest remedial measures to overcome it.

5. Attempt any four parts of the following : (4×5=20)

- (a) What do you mean by 'acid rain' ? What are its causes and effects ?
- (b) Describe various alternative energy sources and their use.
- (c) Explain the effects of Tsunami 2011 in Japan.
- (d) What is AIDS ? What are the sources and mode of transmission of HIV infection ?
- (e) Explain the term 'food web'. Briefly explain a typical terrestrial food web.
- (f) What are mineral resources ? Write an explanatory note on the mineral resources of India.