

Total No. of Questions : 5] [Total No. of Printed Pages : 3

Roll No.

BE-202(GS)

B. E. (First/Second Semester)

EXAMINATION, June, 2011

(Common for all Branches)

ENERGY, ENVIRONMENT, ECOLOGY AND SOCIETY

Time : Three Hours

Maximum Marks : 70

Minimum Pass Marks : 22 (D Grade)

Note : Attempt *one* question from each Unit. All questions carry equal marks.

Unit - I

1. (a) 'Energy is essential for the economic growth of country.' Justify the statement.
(b) What is nuclear fusion energy ? Discuss the promises and present status of nuclear fusion energy.

Or

- (a) What is Geothermal energy ? How is it used for generation of electrical power ?
(b) Explain the uses of solar energy for the purposes of
(i) Solar water heating
(ii) Solar air conditioning

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[2]

BE-202(GS)

Unit – II

2. (a) What is Environment ? Enumerate and discuss the various segments of environment in brief.
(b) Discuss the concept of endangered species.

Or

- (a) What do you understand by the term biodiversity ? Name and discuss the three hierarchical levels to study the concept of biodiversity.
(b) Differentiate between the followings :
(i) Grazing and detritus food chains
(ii) In-situ and Ex-situ conservation

Unit – III

3. (a) What is Noise ? What is its units of measurement ? What are the various effects of noise pollution ?
(b) What are particulates ? Classify them according to their mode of formation.

Or

- (a) What are green house gases ? Name and discuss their contribution to global warming.
(b) Write short notes on the following :
(i) Noise abatement
(ii) Traffic noise

Unit – IV

4. (a) Briefly discuss the compositions of domestic and industrial waste waters. What is the basic difference between them ?
(b) Write short notes on the following :
(i) Noise pollution
(ii) Traffic noise

[3]

Or

- (a) What do you understand by soil profile ? Enumerate and explain the various soil layers (horizons) with the help of a typical soil profile sketch.
- (b) Differentiate between the following :
 - (i) Primary and secondary sedimentation tanks
 - (ii) Adsorption and deionisation

Unit – V

- 5. (a) Define EIA. Enumerate and describe the various steps involved in the EIA process.
- (b) What are the objectives of Ethics ? How do they help to business organizations ?

Or

- (a) State and discuss the '3 R's of waste management.
- (b) Write short notes on the following :
 - (i) IEEE and ACM professional code
 - (ii) Common and professional ethics