

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

Roll No. .

BE-202

B. E. (First Semester) EXAMINATION, Dec., 2010

(Grading System)

(Common for all Branches)

ENERGY, ENVIRONMENT, ECOLOGY AND SOCIETY

Time : Three Hours

Maximum Marks : 70

Minimum Pass Marks : 22 (D Grade)

Note : Attempt all questions. Parts of the question should be attempted together. All questions carry equal marks.

1. (a) How can we classify wind energy system ? Explain the disadvantages of wind energy.
- (b) Explain the working of different components of a hydal power plant.

Or

- (a) Whata is Nuclear Energy ? Discuss its potential and utilisation in India.
 - (b) Write brief notes on the following sources of energy :
 - (i) Fossil fuels
 - (ii) Hydrogen
2. (a) Explain the term hydrosphere and atmosphere and give relationship with biosphere.
 - (b) What is Biodiversity ? Discuss the uses/values that can be assigned to biodiyersity.

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Or

- (a) Explain the importance of the natural cycles with neat diagrams.
 - (b) Explain the concept of sustainable development with suitable examples.
3. (a) What is global warming ? Explain the causes and effect of global warming.
- (b) What is acid rain ? What are the causes and effects of acid rain ? How can the problem be overcome ?

Or

- (a) How is sound measured ? Describe the ill effects associated with high level of noise on humans. What measures would you suggest for prevention and control of noise pollution ?
 - (b) Describe the photochemical smog. Under what conditions it gets developed ? Enumerate the adverse effects caused by photochemical smog.
4. (a) Define the terms DO, BOD and COD. Discuss in detail aerobic and anaerobic waste water treatment methods with their advantages and disadvantages.
- (b) Differentiate biodegradable and non-biodegradable organics. Discuss the impact of biodegradable organic in water pollution.

Or

- (a) How do agrochemical and fertilizer contribute to soil pollution ? What are control measures to minimize the pollution ?

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- (b) Discuss the various sources of soil pollutants and the role of urban waste and modern agro-technology in soil pollution. How can they affect the soil ?
- 5. (a) Describe the impact of ethical behaviour on environmental protection.
- (b) What are the major pollutants due to the solid waste ? Explain various processes of hospital waste.

Or

Write short notes on any *four* of the following :

- (i) Professional codes of ethics
- (ii) Object of Ethics
- (iii) Right of the animal
- (iv) MSW (Municipal Solid Waste)
- (v) Ethical solution