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Roll No.

302

B. E. (Third Semester) EXAMINATION, June, 2009

(Old Scheme)

**(Common for AU, CE, CM, CS, EC, EE, EI, EX, FT, IT,
ME, TX, BT, & BM Engg.)**

ENERGY, ECOLOGY, ENVIRONMENT AND SOCIETY

Time : Three Hours

Maximum Marks : 100

Minimum Pass Marks : 35

Note : Attempt all questions. All questions carry equal marks.

1. (a) Explain Conventional and Non-conventional energy resources with suitable examples. 14
- (b) Write a note on energy scenerio in India. 6

Or

- (a) What is Solar energy ? How solar energy can be efficiently converted into other forms of energy ? Give applications, advantages and limitations of solar energy. 14
 - (b) Write a note on Biomass energy. 6
2. (a) What is Global Warming ? Name the gases responsible for global warming. What are consequences of global warming ? How global warming can be controlled ? 14
 - (b) Write a short note on biodiversity.

(Or

- (a) What is ozone layer depletion ? How does it take place ? What are consequences and preventive measures for ozone layer depletion ? 14
- (b) Write a short note on El-Nino phenomenon. 6
3. (a) What is air pollution ? Discuss various photochemical reactions with their adverse effects. 14
- (b) Write a short note on Acid Rain. 6

Or

- (a) Describe various air sampling techniques. 14
- (b) Write a short note on Photochemical Smog. 6
4. (a) What is water pollution ? Discuss various water pollutants giving their adverse effects. 14
- (b) Write a short note on Minamata disease. 6

Or

- (a) Describe various steps during industrial waste water treatment. 14
- (b) Write a note on water sampling techniques. 6
5. (a) What is soil pollution ? Explain soil profile. How various pollutants are introduced in soil ? Write control measures of soil pollution. 14
- (b) Write a note on soil erosion. 6

Or

- (a) What is Noise ? Write physiological and psychological effects of sound pollution. How noise pollution can be controlled ? 14
- (b) Write a note on decibel scale. 6