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Roll No.

402(N)**B. E. (Fourth Semester) EXAMINATION, June, 2010***(New Scheme)**(Common for AU, CE, CM, FT, IP, ME & TX Engg.)***ENERGY, ENVIRONMENT, ETHICS & SOCIETY***Time : Three Hours**Maximum Marks : 100**Minimum Pass Marks : 35***Note :** Attempt all questions. Parts of the question should be attempted together.

1. (a) What are renewable energy resources ? Explain any two of them, in detail. 10
- (b) What is "Global warming" ? Explain its causes in detail. 10

Or

Write informative notes on the following : 5 each

- (a) Green energy solutions
 - (b) Global environmental issues
 - (c) World energy scenario
 - (d) Fossil fuel resource estimates
2. (a) What is "Sustainable environment" ? What is the impact of P. A. T. on environment ? 10
 - (b) Explain environmental accounting and auditing ? Why is it necessary ? 10

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Or

Write informative notes on the following :

- (a) Environmental Impact Assessment 8
 (b) Socio-culture system 6
 (c) Exponential growth in population 6
 (a) Explain Lithosphere, Hydrosphere and Biosphere. Also draw sketches. 10
 (b) Explain with flow diagram nitrogen and carbon cycles. 10

Or

Write short notes on the following : 5 each

- (a) Biodiversity
 (b) Impact and challenges of environmental ethics
 (c) ISO 14000
 (d) Energy balance to earth
 4. (a) What are the ill effects of CO, NO_x, SO_x and HC ? 10
 (b) Explain the characteristics of tannery waste. 5
 (c) What are the sources and control measures of Noise pollution ? Enlist them. 5

Or

Write short notes on the following : 5 each

- (a) Acid rain
 (b) Monitoring of air pollutants
 (c) Difference between primary and secondary air pollutants
 (d) Characteristics of paper industry waste

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5. (a) Explain the utility of ethics for the betterment of society and protection of environment. 10
 (b) Define ethics and explain its objectives. 10

Or

Write short notes on the following : 5 each

- (a) Ethics and moral values
 (b) Common and professional ethics
 (c) Rights and duties of ethics
 (d) IEEE and ACM professional code