

Total No. of Questions : 10 ] [ Total No. of Printed Pages : 2

Roll No. ....

**402(N)**

**B. E. (Fourth Semester)  
EXAMINATION, June, 2011**

**(Common for AU, CE, CM, FT, IP, ME & TX Engg. Branch)**

**ENERGY, ENVIRONMENT, ETHICS AND SOCIETY**

*Time : Three Hours*

*Maximum Marks : 100*

*Minimum Pass Marks : 35*

**Note :** Attempt all questions. Internal choice is given. All questions carry equal marks.

1. (a) Discuss various exhaustible and non-exhaustible energy resources. 10
- (b) What are solar energy collectors ? Discuss use of solar energy in water heating. 10

*Or*

2. (a) Discuss sources, availability, future prospects and pollution problems related to fossil fuels. 10
- (b) Discuss geothermal energy. Write its advantages and limitations. 10
3. (a) Describe how the population growth affects the environment and the society. 10
- (b) Give an account of free access resources. 10

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*Or*

4. (a) Discuss the impact of P. A. T. on environment. 10  
(b) Describe some environmentally beneficial and harmful technologies. 10
5. (a) Describe structure of atmosphere giving various zones. 10  
(b) Discuss the significance of matter and nutrient recycling in ecosystems. 10

*Or*

6. (a) Explain biodiversity. Discuss threat and conservation of biodiversity. 10  
(b) Describe the structure of an ecosystem. 10
7. (a) What is ozone layer depletion ? Discuss its consequences and controlling measures. 10  
(b) Discuss sources and harmful effects of CO, NO<sub>x</sub>, SO<sub>x</sub> and CH in atmosphere. 10

*Or*

8. (a) What is acid rain ? Write its consequences and preventive measures. 10  
(b) Discuss industrial pollution from paper industry. 10
9. (a) What do you understand by moral values ? Discuss role morality and conflicts. 10  
(b) Describe ACM professional code. 10

*Or*

10. (a) What is Ethics ? Discuss various ethical situations in industries. 10  
(b) Discuss various ethical value criteria for improvement of urban or rural intersections. 10

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