

**M.E. DEGREE EXAMINATIONS: JUNE 2011**

Second Semester

**ENERGY ENGINEERING**

EEG506: Environmental Engineering and Pollution Control

**Time: Three hours**

**Maximum Marks: 100**

**Answer ALL Questions**

**PART A (10x2 = 20 Marks)**

1. What is meant by global atmosphere?
2. What is the technique of ozone molecule disassociation?
3. What is green house effect?
4. Define overgrazing.
5. Write about the some effects of pollution on human beings and vegetations.
6. What are the different characteristics of the solid waste?
7. Write few causes for soil pollution?
8. What are the different sources of water pollution and list its classification?
9. Name the steps involved in solid waste management?
10. Name some instrument required for EIA test?

**PART B (5 x 16=80 Marks)**

11. a) Describe global atmospheric changes with few incidents.

**(OR)**

- b) Describe mass and energy transfer with respect to environment.

12. a) Give the classification of pollutants. Briefly explain their effects on human beings and vegetations.

**(OR)**

- b) What are the control methods and equipments used for controlling air pollution?

13. a) Explain the various control measures of water pollution

**(OR)**

- b) Write a detailed procedure involved in the waste water sampling analysis?

14. a) (i) Explain the different types of solid wastes. (6)  
(ii) What are the characteristic of an effective solid waste management system? (10)

**(OR)**

- b) What is meant by radio activity pollution? What are the main sources? Give a detailed analysis?

15. a) Explain in detail about the instrumentation required for pollution control measurement in thermal power plants?

**(OR)**

- b) How the ground water is polluted by tanneries? What are the control measures? Explain them in details?

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