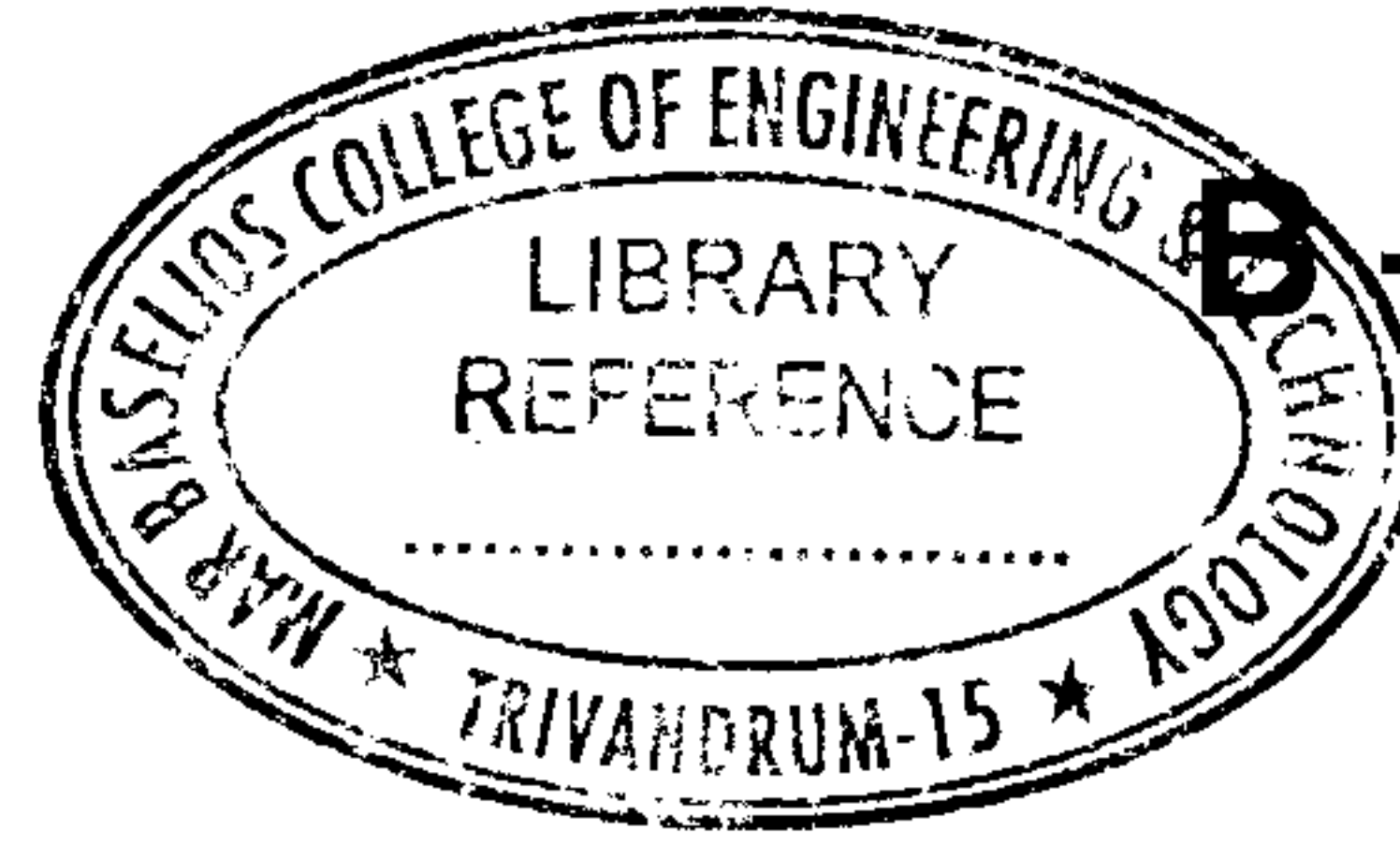




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B-3303

Reg. No. :

Name :

**Fifth Semester B.Tech. Degree Examination, December 2016
(2013 Scheme)**

13.506.10 : ENVIRONMENTAL POLLUTION CONTROL (MP)

Time : 3 Hours

Max. Marks : 100

PART – A

(10×2=20 Marks)

Answer **all** questions.

1. List any four functions performed by environmental engineer.
2. State any four important air pollutants released due to combustion.
3. Give any four sources of water pollution.
4. What do you understand by the term : BOD ?
5. Mention any two harmful effects of solid waste.
6. What are the equipment used in controlling air pollution from thermal power plant ?
7. Name any two important pollutants formed in nuclear power plants.
8. List the harmful effect of NO_x.
9. What is greenhouse effect ?
10. State the function of state pollution control boards.

PART – B

(4×20=80 Marks)

Answer **four full** questions choosing **not** more than **one** question from **each** Module.

Module – I

11. a) Explain how the environment quality gets affected due to natural and human actions. 10
- b) Explain the effect of air pollution on human life. 10

OR

12. What are the important sources of air pollution and briefly explain how they could be controlled to limit the damage caused by them ? 20

P.T.O.



Module – II

13. a) What are oxygen demanding wastes and explain how water containing such wastes could be treated? **10**
b) Briefly explain the influence of salts and pesticides in water pollution. **10**

OR

14. Give a detailed description of steps involved in integrated solid waste management. **20**

Module – III

15. a) Explain how thermal and nuclear power plants contribute to thermal pollution and how does it affect the environment. **10**
b) List and explain the processes which affect the environment in a thermal power plant. **10**

OR

16. Using sketches briefly explain the construction and working of electrostatic precipitator and bag filters in controlling air pollution. **20**

Module – IV

17. a) Explain any two methods of reducing industrial noise from plants. **10**
b) List the pollutants observed in petrol engine and diesel engine exhaust and list their harmful effects on human life. **10**

OR

18. a) What is the role of a catalytic converter in a automotive petrol engine? Where is it fitted and how does it function? **10**
b) Give a brief account of the legal powers of central and state pollution control boards. **10**
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