

24518

B.Tech. 7th Semester (Civil Engineering)

Examination, December-2015

ENVIRONMENTAL POLLUTION AND CONTROL

Paper-CE-411-F

Time allowed: 3 hours]

[Maximum marks : 100

Note : Attempt any five questions. All questions carry equal marks.

1. (a) Discuss the problems and issues related to the environment and their impact on society. 10
(b) Explain principles of villages and town planning. 10
2. What are the objects of Bye laws ? What are principles to be observed while framing the building bye laws ? 20
3. (a) What is your opinion about economics of air pollution control on the basis of cost-benefit ratio and optimization ? 13
(b) What are the various treatments and control methods for water pollution ? 7
4. Write short note on :
(a) Environmental Management Technique 10
(b) Sensitive Analysis. 10

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5. (a) Write a short note on ambient air quality standards. 10
- (b) Define : 10
- (i) Chemical O_2 demand
 - (ii) Biological O_2 demand. 10
6. (a) Explain water-borne diseases caused by bacteria, viruses, protozoa. How are the incidences of these diseases prevented? 15
- (b) State any four factors responsible for photochemical smog. 5
7. (a) Differentiate the role of regulatory agencies and control boards in obtaining environmental clearance for project. 10
- (b) Explain briefly environmental protection laws and acts. 10
8. What are the long-term goals recommended by WHO for the following pollutants? 20
- (a) SO_2
 - (b) pH value
 - (c) Suspended Particles
 - (d) Photochemical oxidant.