B Tech VII Semester Back Paper Examination - 2016
TCE 707 - Air and Water Pollution

M.M. 100

Note: Attempt all questions. Each question is of 20 marks.

Q.1 Attempt any 4 parts, each part is of 5 marks
a) Write the different sources of water pollution in fresh water.
b) Enumerate various analytical methods available for monitoring air pollution.
c) Explain Gaussian diffusion method.
d) Explain the scope of air pollution studies.
e) Explain Mass balance approach in water quality.

Q.2 Attempt any 4 parts, each part is of 5 marks
a) Write a short note on ecosystems? Explain impact of pollution on ecosystem.
b) How do pollutants interact in the environment?
c) What are the vehicular pollution problems in India?
d) What key meteorological data is required for air monitoring?
e) What are parameters to judge quality of waste water?

Q.3 Attempt any 2 parts, each part is of 10 marks
a) Write salient features of environmental pollution act 1981?
b) What is watershed and how its carrying capacity is calculated?
c) What do you understand by the term emission inventory? Explain in detail?

Q.4 Attempt any 2 parts, each part is of 10 marks
a) What is the difference between national and international regulations on air pollution control?
b) State the impact of thermal power plants in India.
c) Discuss in detail about indoor air pollution.

Q.5 Attempt any 2 parts, each part is of 10 marks
a) Explain in detail isokinetic sampling.
b) Explain the mechanism of scrubbers in removing particulate matter.
c) What are the alternate energy sources available that can be used to reduce air pollution?

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