

Code No: **R41013** 

# Set No. 1

### IV B.Tech I Semester Supplementary Examinations, March/April - 2016 **ENVIRONMENTAL ENGINEERING**

Time: 3 hours

(Civil Engineering)

Max. Marks: 75

## **Answer any FIVE Questions**

#### All Questions carry equal marks

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1	a) b)	Explain the need for air pollution control methods. Mention control equipment for particulate emissions. Discuss primary and secondary pollutants. What are the point, line, and area sources?	[8] [7]
2	a) b)	What is meant by Osmotic Pressure? Enumerate the Reverse Osmosis process. Mention the negative impacts of Nitrogen and Phosphorous in water bodies and also suggest methods for the removal of these substances.	[8] [7]
3	a) b)	Write a detailed note on the role of effluent standards in waste water Management. Explain the importance of volume reduction and strength reduction in waste water Treatment	[8] [7]
4	a) b)	Define Municipal Solid Waste. Mention its composition and properties of solid waste. Also the role of segregation. What is Hazardous waste and biomedical waste? Discuss the differences between the two types.	[8] [7]
5	a) b)	Define the word Noise and Noise Pollution. Explain the impacts of noise on the humans. Also the ways to mitigate noise in residential area and Industries. Discuss importance of ISO14000	[8] [7]
6	a) b)	Write an essay on recirculation of Industrial waste and associated merits and demerits. Explain in the Environmental Sanitation practices to be followed in Hotels and Hostels.	[8] [7]
7	a) b)	Explain the methodology for assessment of impacts for water, air environments What is mean by Environmental Audit? Explain the various stages in Environmental Audit Studies in an Industry.	[8] [7]
8	a) b)	<ul> <li>Write Notes on: i) Primary and Secondary Impacts with Examples.</li> <li>ii) Impact Evaluation</li> <li>Write Notes on: i) Nuclear Waste ii) Composting and Vermi-Composting</li> </ul>	[8] [7]

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