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# MANIPAL INSTITUTE OF TECHNOLOGY

## MANIPAL

*(A Constituent Institution of MAHE, Manipal)*

**END Semester EXAMINATIONS, NOV/DEC 2020**

**SUBJECT: INDUSTRIAL POLLUTION CONTROL [CHE-4301]**

**REVISED CREDIT SYSTEM**

Time: 3 Hours

MAX. MARKS: 50

### Instructions to Candidates:

- ❖ Answer **ALL** the questions.
- ❖ Missing data may be suitable assumed.

<b>1A.</b>	What are the challenges faced in controlling E-wastes and what are the roles of industries and citizens in controlling it?	<b>3</b>
<b>1B.</b>	With the help of a diagram explain about the mechanism of composting.	<b>3</b>
<b>1C.</b>	Explain any four tertiary wastewater treatment processes.	<b>4</b>
<b>2A.</b>	Mention the differences between primary and secondary air pollutants.	<b>3</b>
<b>2B.</b>	Explain the wastewater treatment process with the help of a neat diagram.	<b>4</b>
<b>2C.</b>	With the help of a neat diagram explain the working of cyclone precipitator.	<b>3</b>
<b>3A.</b>	Draw a flowchart and explain about bio-medical waste management.	<b>3</b>
<b>3B.</b>	Mention any two processes each for removal of oxides of sulfur and nitrogen in air.	<b>4</b>
<b>3C.</b>	Explain in detail all the parameters that are required to be tested for determining the quality of water.	<b>3</b>
<b>4A.</b>	with the help of neat diagrams, explain about BOD curve and oxygen sag curve.	<b>4</b>
<b>4B.</b>	Explain the method for determination of dissolved oxygen in water.	<b>3</b>
<b>4C.</b>	Write about any three effects of air pollution on vegetation and animals (Three each).	<b>3</b>
<b>5A.</b>	Describe in detail about any three measures that you have taken in controlling any kind of pollution in your community.	<b>3</b>
<b>5B.</b>	Explain in detail about all the parameters needed to be studied for the survey of gaseous pollutants.	<b>4</b>
<b>5C.</b>	Describe in detail about the disposal system of hazardous wastes.	<b>3</b>