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**MANIPAL INSTITUTE OF TECHNOLOGY**  
**MANIPAL**  
*(A constituent unit of MAHE, Manipal)*

**II SEMESTER M.TECH.(ENVIRONMENTAL) END SEMESTER MAKEUP  
EXAMINATIONS**

**MAY-JUNE 2019**

**SUBJECT: PROGRAM ELECTIVE – II OCCUPATIONAL  
SAFETY AND HEALTH [CIE- 5247]**

Date of Exam:

Time of Exam:

Max. Marks: **50**

**Instructions to Candidates:**

❖ Answer ALL the questions

<b>1A.</b>	Explain different classes and symbols in chemical supply list.	<b>5</b>
<b>1B.</b>	Explain different types of fire extinguishers and its characteristics.	<b>5</b>
<b>2A.</b>	Explain different classes of toxicity.	<b>5</b>
<b>2B.</b>	Explain different entry points of toxic substances.	<b>5</b>
<b>3A.</b>	Write a short note on Lethal Dose.	<b>3</b>
<b>3B.</b>	Explain Permitted Exposure Level (PEL).	<b>4</b>
<b>3C.</b>	Explain effects of airborne toxic contaminants.	<b>3</b>
<b>4A.</b>	Explain the procedure for calculating Dow and Mond Index.	<b>5</b>
<b>4B.</b>	Explain steps involved in risk assessment.	<b>5</b>
<b>5A.</b>	Explain different gates of Fault Tree Analysis.	<b>4</b>
<b>5B.</b>	Explain classification of failure.	<b>3</b>
<b>5C.</b>	Explain Human Factor Model.	<b>3</b>