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

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

**APRIL-MAY 2019**

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

Date of Exam: 4/05/2019

Time of Exam: **9-12 AM**

Max. Marks: **50**

**Instructions to Candidates:**

❖ Answer ALL the questions

<b>1A.</b>	Explain different chemical hazard classes and its safe working practices.	<b>5</b>	<b>CO1</b>
<b>1B.</b>	Explain different fire classification as per ISI 2190/1979	<b>5</b>	<b>CO1</b>
<b>2A.</b>	Write short note on “The Factories Act-1948”.	<b>5</b>	<b>CO2</b>
<b>2B.</b>	Explain the necessity of Personal Protective Equipment (PPE).	<b>3</b>	<b>CO2</b>
<b>2C.</b>	Write a short note on Material Safety Data Sheet (MSDS).	<b>2</b>	<b>CO4</b>
<b>3A.</b>	Write a short note on “Dose Threshold”	<b>2</b>	<b>CO3</b>
<b>3B.</b>	Explain probit analysis.	<b>3</b>	<b>CO3</b>
<b>3C.</b>	Explain different Threshold Limiting Value (TLV).	<b>5</b>	<b>CO3</b>
<b>4A.</b>	Explain respiratory protective equipment and its checks.	<b>3</b>	<b>CO4</b>
<b>4B.</b>	Explain likelihood scale of risk assessment.	<b>3</b>	<b>CO4</b>
<b>4C.</b>	Explain different parameters of Fire and Explosion index.	<b>4</b>	<b>CO5</b>
<b>5A.</b>	Explain Fault Tree Analysis with help of an example.	<b>6</b>	<b>CO5</b>
<b>5B.</b>	Explain Petersen’s Accident/Incident Theory.	<b>4</b>	<b>CO2</b>