



**MANIPAL INSTITUTE OF TECHNOLOGY**

**MANIPAL**

*(A constituent unit of MAHE, Manipal)*

**MANIPAL INSTITUTE OF TECHNOLOGY**

**II SEMESTER M.TECH (ENVIRONMENTAL ENGINEERING)**

**END SEMESTER EXAMINATION**

**Occupational Safety and Health (CIE 5414)**

( )

**TIME: 3 HRS.**

**MAX. MARKS: 50**

**Note: 1. Answer all questions.**

**2. Any missing data may be suitably assumed.**

<b>Q. NO</b>	<b>QUESTION</b>	<b>MARKS</b>	<b>CO</b>	<b>BL</b>
<b>1A</b>	Differentiate consequence and risk in safety.	<b>2</b>	<b>1</b>	<b>3</b>
<b>1B</b>	Write a short note on “Istanbul Declaration on Safety and Health at Work”.	<b>3</b>	<b>1</b>	<b>3</b>
<b>1C</b>	Explain various responses to toxicants.	<b>5</b>	<b>3</b>	<b>3</b>
<b>2A</b>	Explain different types of fire extinguishers and its characteristics.	<b>5</b>	<b>2</b>	<b>3</b>
<b>2B</b>	Write a short note on The Factories Act, 1948	<b>3</b>	<b>1</b>	<b>3</b>
<b>2C</b>	Write a short note on Asbestos Hazard	<b>2</b>	<b>2</b>	<b>3</b>
<b>3A</b>	Explain the design of toxicology experiment.	<b>3</b>	<b>2</b>	<b>3</b>
<b>3B</b>	Explain the effect of airborne toxicants	<b>4</b>	<b>3</b>	<b>3</b>
<b>3C</b>	Explain positive and negative pressure of Self-Contained Breathing Apparatus(SCBA).	<b>3</b>	<b>2</b>	<b>3</b>
<b>4A</b>	Explain risk assessment matrix.	<b>4</b>	<b>3</b>	<b>3</b>
<b>4B</b>	Explain safety layer of protection.	<b>4</b>	<b>3</b>	<b>3</b>
<b>4C</b>	Write a short note on Cumulative Trauma Disorder.	<b>2</b>	<b>4</b>	<b>3</b>
<b>5A</b>	Write a short note on cardiopulmonary resuscitation	<b>4</b>	<b>4</b>	<b>3</b>
<b>5B</b>	Explain classification of failure.	<b>4</b>	<b>5</b>	<b>3</b>
<b>5C</b>	List different steps in Fault Tree Analysis.	<b>2</b>	<b>5</b>	<b>3</b>