

USN

Course Code 2 2 C V 6 4 4

Sixth Semester B.E. Degree Examinations, May/June 2026

OCCUPATIONAL HEALTH AND SAFETY

Duration: 3 hrs

Max. Marks: 100

Note: 1. Answer any FIVE full questions choosing ONE full Question from each Module
 2. Missing data, if any, may be suitably assumed

<u>Q. No</u>	<u>Question</u>	<u>Marks</u>	<u>(RBTL:CO: PI)</u>
<u>Module-1</u>			
1.	a. Define occupational health and safety. List its objectives.	10	(2 : 1 : 1.2.1)
	b. Explain the principles of occupational safety and health at a work place.	10	(2 : 1 : 2.1.1)
(OR)			
2.	a. Justify the accident Investigation. Enumerate the steps involved in accident investigation at a work place.	10	(2 : 1 : 1.2.1)
	b. Explain the role and responsibility of supervisory in Investigation team.	10	(2 : 1 : 2.1.1)
<u>Module-2</u>			
3.	a. Discuss ergonomics at workplace in brief.	10	(2 : 2 : 2.1.1)
	b. Write a brief note on work analysis programme for ergonomics.	10	(2 : 2 : 2.2.1)
(OR)			
4.	a. Explain briefly fault tree analysis.	10	(2 : 2 : 2.1.1)
	b. Explain in detail emergency response plan.	10	(2 : 2 : 2.2.1)
<u>Module-3</u>			
5.	a. Define fire. Explain in detail the fire triangle.	10	(2 : 3 : 1.2.1)
	b. Explain briefly the classification of fire.	10	(2 : 3 : 2.2.1)
(OR)			
6.	a. Write a note on electrical and product safety.	10	(2 : 3 : 1.2.1)
	b. What are fire extinguishers? Explain any two types of extinguishers with neat sketch.	10	(2 : 3 : 2.2.1)
<u>Module-4</u>			
7.	a. Describe the different types of occupational diseases commonly found in engineering industries.	10	(2 : 4 : 2.1.1)
	b. Describe the types and advantages of Personal Protective Equipment (PPE).	10	(2 : 4 : 2.1.1)
(OR)			

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| 8. | a. | Discuss municipal solid waste management. | 10 | (2 :4 : 2.1.1) |
| | b. | Analyze the potential health risks associated with exposure to hazardous substances in engineering industries. How can these risks be mitigated? | 10 | (2 :4 : 2.1.1) |

Module-5

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| 9. | a. | Discuss the roles and responsibilities of managers at in construction sites. | 10 | (2 :5 : 2.2.1) |
| | b. | Explain the importance of proper chemical handling procedures in water and wastewater treatment plants and laboratories. | 10 | (2 :5 : 2.1.1) |

(OR)

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|-----|----|---|----|----------------|
| 10. | a. | Discuss occupational safety practices at construction sites. | 10 | (2 :5 : 2.2.1) |
| | b. | Write a brief note on hazard preventions and control in RMC plants. | 10 | (2 :5 : 2.1.1) |

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