

**GUJARAT TECHNOLOGICAL UNIVERSITY****BHMCT- SEMESTER-V EXAMINATION – SUMMER 2025****Subject Code:153306****Date:22-05-2025****Subject Name: Hotel Engineering & Maintenance****Time:02:30 PM TO 05:00 PM****Total Marks:70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. Simple and non-programmable scientific calculators are allowed.

		<b>MARKS</b>
<b>Q.1</b>	(a) Describe Methods of Waste Disposal.	<b>03</b>
	(b) What Is Water Closet in Sanitary System?	<b>04</b>
	(c) Explain fire triangle in detail along with classification of fire	<b>07</b>
<b>Q.2</b>	(a) What is Swimming Pool Maintenance?	<b>03</b>
	(b) What are advantages and disadvantages of fuels?	<b>04</b>
	(c) What do you understand by Water Quality Standard?	<b>07</b>
<b>OR</b>		
	(c) Draw a line sketch of a typical cold-water distribution system supplied by civic body water mains.	<b>07</b>
<b>Q.3</b>	(a) Write about basin in sanitary System?	<b>03</b>
	(b) Discuss different types of pollution related to a hotel.	<b>04</b>
	(c) What are types of Failure Mechanism of Equipments?	<b>07</b>
<b>OR</b>		
<b>Q.3</b>	(a) Describe ventilation Need and Types.	<b>03</b>
	(b) Discuss the types of hardness of water. State the disadvantages of using hard water in hotels.	<b>04</b>
	(c) Differentiate between spilt & window air conditioning system	<b>07</b>
<b>Q.4</b>	(a) What are the types of Maintenance?	<b>03</b>
	(b) Elaborate the function of Hotel Engineering And Maintenance Department?	<b>04</b>
	(c) Write about Thermal and calorific Value?	<b>07</b>
<b>OR</b>		
<b>Q.4</b>	(a) What is Bunsen Burner?	<b>03</b>
	(b) What are measures to Heat Control?	<b>04</b>
	(c) Describe 14 methods in Kitchen department for energy conservation	<b>07</b>
<b>Q.5</b>	(a) Explain water softening.	<b>03</b>
	(b) Describe importance of earthing for an electrical appliance.	<b>04</b>
	(c) Explain the precautions to be taken while handling the electric equipment's.	<b>07</b>
<b>OR</b>		
<b>Q.5</b>	(a) What are ohms Law?	<b>03</b>
	(b) Explain 5 points of control measures for Air pollution in hotels	<b>04</b>
	(c) Define Fire Hazards.	<b>07</b>

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