

**GUJARAT TECHNOLOGICAL UNIVERSITY****BHMCT - SEMESTER-V EXAMINATION – WINTER 2021****Subject Code:153306****Date:23/12/2021****Subject Name:Hotel Engineering & Maintenance****Time:10:30 AM TO 01:00 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>MARK</b>
<b>Q.1</b>	(a) What are the types of Maintenance?	<b>03</b>
	(b) What are the precaution while using gas a fuel in Hotel	<b>04</b>
	(c) Industry? Explain the duties & responsibilities of Chief Engineer in hotel?	<b>07</b>
<b>Q.2</b>	(a) What are types of Pollutants?	<b>03</b>
	(b) What Is Water Closet in Sanitary System?	<b>04</b>
	(c) Describe 14 methods in Kitchen department for energy conservation	<b>07</b>
<b>OR</b>		
	(c) Explain water softening, justify any once process in detail?	<b>07</b>
<b>Q.3</b>	(a) Explain control measures for Air pollution in hotels (at least 10 points)	<b>03</b>
	(b) Differentiate between air conditioning & refrigeration.	<b>04</b>
	(c) Differentiate between air conditioning & refrigeration?	<b>07</b>
<b>OR</b>		
<b>Q.3</b>	(a) What is ohms Law?	<b>03</b>
	(b) Discuss different types of pollution related to a hotel?	<b>04</b>
	(c) Explain water treatment process used in hotels in detail?	<b>07</b>
<b>Q.4</b>	(a) What is Duties and responsibilities of Chief Engineer?	<b>03</b>
	(b) What is Water Sprinkler?	<b>04</b>
	(c) Explain different types of maintenance with one example each?	<b>07</b>
<b>OR</b>		
<b>Q.4</b>	(a) What is Close and Open Circuit?	<b>03</b>
	(b) What is Swimming Pool Maintenance?	<b>04</b>
	(c) Explain different types of replacement policies used for equipment's in hotels?	<b>07</b>
<b>Q.5</b>	(a) Explain in brief Water Pollution?	<b>03</b>
	(b) Narrate Energy Conservation Tips in Food and Beverage outlets?	<b>04</b>
	(c) Classify refrigeration system with examples?	<b>07</b>
<b>OR</b>		
<b>Q.5</b>	(a) Write about basin in sanitary System?	<b>03</b>
	(b) Narrate Energy Conservation Tips in Kitchen of a 5star hotel?	<b>04</b>
	(c) How will you overcome water pollution in hotels? Recommend some positive steps for the same?	<b>07</b>

\*\*\*\*\*