

GUJARAT TECHNOLOGICAL UNIVERSITY**BHMCT- SEMESTER-V EXAMINATION – WINTER 2024****Subject Code:153306****Date:03-12-2024****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.

		Marks
Q.1	(a) Define the different types of maintenance in hotel operations.	03
	(b) Explain the functions and scope of the maintenance department in a hotel.	04
	(c) Describe the steps involved in swimming pool maintenance and the importance of regular maintenance in hotels.	07
Q.2	(a) What is the organizational structure of the engineering department in a hotel?	03
	(b) Discuss the duties and responsibilities of a Chief Engineer in hotel maintenance.	04
	(c) Explain the purpose of a maintenance order form and how it is used in hotel maintenance management.	07
OR		
	(c) Describe the process of replacing equipment that fails suddenly in a hotel. What policies should be in place for such replacements?	07
Q.3	(a) List different types of fuels used in hotels.	03
	(b) Discuss the advantages and disadvantages of using gas as a fuel in the hotel industry.	04
	(c) Explain the construction of an industrial gas range and the precautions that should be taken while using gas in hotels.	07
OR		
Q.3	(a) What is the thermal and calorific value of a fuel? Why is it important in hotel operations?	03
	(b) Describe the operation and purpose of a Bunsen burner in a hotel kitchen.	04
	(c) Discuss the different types of traps and plumbing work involved in wastewater disposal in hotels.	07
Q.4	(a) Define Ohm's Law and explain its application in hotel electrical systems.	03
	(b) What are the energy conservation tips for hotels, specifically in housekeeping and kitchen areas?	04
	(c) Describe the importance of earthing in hotel electrical systems and explain the precautions while handling electrical appliances.	07
OR		
Q.4	(a) What is a close and open circuit? Provide examples of their use in hotel operations.	03
	(b) How do you calculate the power consumption for electrical appliances in a hotel?	04
	(c) Discuss the measures for energy conservation in food and beverage outlets and other hotel areas.	07

- Q.5** (a) What is the fire triangle, and how does it relate to fire prevention in hotels? **03**
(b) Name and describe the different types of fire extinguishers commonly used in hotels. **04**
(c) Discuss the importance of smoke detectors, fire alarms, and water sprinklers in hotel fire safety. **07**

OR

- Q.5** (a) Define the term "pollutant" and discuss the different types of pollution that can affect hotel operations. **03**
(b) Explain the pollution control measures that can be implemented in hotels. **04**
(c) Discuss the sanitary system components, such as sinks, water closets, and flushing cisterns, used in hotels. **07**
