

**GUJARAT TECHNOLOGICAL UNIVERSITY****BHMCT- SEMESTER-V EXAMINATION – WINTER 2022****Subject Code:153306****Date:19-01-2023****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>MARKS</b>
<b>Q.1</b> (a) Replacement – Explain in detail	<b>03</b>
(b) Explain the role of Engineering/Maintenance department in hotels.	<b>04</b>
(c) Draw and explain the organizational structure of the engineering department	<b>07</b>
<b>Q.2</b> (a) Fuels – Explain all with examples	<b>03</b>
(b) Write down the precautions while using LPG fuel in hotel industry	<b>04</b>
(c) Explain different types of Maintenance with examples	<b>07</b>
<b>OR</b>	
(c) Write the advantages and disadvantages of solid fuel	<b>07</b>
<b>Q.3</b> (a) What is the importance of earthing	<b>03</b>
(b) Define Conductor, Insulator, and Ohms law with examples.	<b>04</b>
(c) List down the energy conservation tips to be followed in the hotel Kitchen	<b>07</b>
<b>OR</b>	
<b>Q.3</b> (a) Explain the following as short answer – Voltage drop, MCB, (AC & DC)	<b>03</b>
(b) Draw and explain Series and Parallel connection.	<b>04</b>
(c) List down the energy conservation tips to be followed in the hotel housekeeping department	<b>07</b>
<b>Q.4</b> (a) What is a refrigerant, explain its roll in the cooling system?	<b>03</b>
(b) Explain different types of fire extinguishers used/recommended in hotels.	<b>04</b>
(c) Draw and explain the Fire Triangle.	<b>07</b>
<b>OR</b>	
<b>Q.4</b> (a) What is a ventilator in a room, explain its importance?	<b>03</b>
(b) Explain the major difference between an Air condition & Refrigeration.	<b>04</b>
(c) Explain in detail the classification of Fire.	<b>07</b>
<b>Q.5</b> (a) SWTP – Elaborate and explain its importance in a hotel.	<b>03</b>
(b) Explain the Hot water & cold-water importance in a hotel and its supply system followed.	<b>04</b>
(c) Explain different types of pollution and its control methods	<b>07</b>
<b>OR</b>	
<b>Q.5</b> (a) What is an inspection Camber in sanitary system?	<b>03</b>
(b) Explain the following – Drainage & Sewage lines.	<b>04</b>
(c) Replacement policies – explain its reasons, importance, procedure.	<b>07</b>

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