

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

BHMCT- SEMESTER-V EXAMINATION – WINTER 2020

Subject Code:153306

Date:03/02/2021

Subject Name:Hotel Engineering & Maintenance

Time:10:30 AM TO 12:30 PM

Total Marks: 56

Instructions:

1. Attempt any FOUR questions out of EIGHT questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

	MARKS
Q.1 (a) What is maintenance in a hotel? Describe.	03
(b) Mention ten important duties and responsibilities of Chief Engineer of a hotel.	04
(c) Draw the organisational structure of hotel engineering department.	07
Q.2 (a) Name fuels used in hotel.	03
(b) Explain the reason under which equipment are replaced.	04
(c) Explain AC&DC and state the difference between AC&DC current.	07
Q.3 (a) Classify fires.	03
(b) Discuss in brief about the maintenance procedure of a swimming pool.	04
(c) Explain functioning of a gas burner and list different types of gas burners.	07
Q.4 (a) What are ohms Law?	03
(b) Discuss different types of pollution related to a hotel.	04
(c) Elaborate the scope and function of Hotel Engineering And Maintenance Department?	07
Q.5 (a) Write short notes on Methods of Waste Disposal	03
(b) Discuss the types of hardness of water. State the disadvantages of using hard water in hotels.	04
(c) What are the types of air-conditioners? Explain the central air-conditioning system.	07
Q.6 (a) Write the use of Smoke detector and Water Sprinkler.	03
(b) Discuss why earthing is important for an electrical appliance?	04
(c) Discuss the basic scientific principles behind refrigeration in detail. With the help of a neat sketch, explain the vapour compression cycle of refrigeration.	07
Q.7 (a) Give the Importance of Inspection Chamber.	03
(b) Narrate Energy Conservation Tips in Food and Beverage outlets	04
(c) Calculate the electricity bill for December 2014 for the following appliances: Tariff: Rs.5/- per unit	07
(a) 1000W bulb 10 nos. 8 hrs./day	
(b) 1.5 KW heater 2 nos. 4 hrs./day	
(c) 1.5 KW A.C. 1 no. 4 hrs./day	
(d) 40W tube light 10 nos. 8 hrs./day	
Q.8 (a) Explain Water Closet system.	03
(b) Narrate Energy Conservation Tips in Kitchen of a 5star hotel.	04

(c) Calculate the electricity bill for the month of April 2011 having the following electric loads:

07

- 60W bulbs 10 Nos. 6 hrs/day
 - 60W fans 10 Nos. 5 hrs/day
 - 3 KW heater 03 Nos. 4 /hrs/day
 - 750W iron 02 Nos. 3 hrs/day
 - 6KW boiler 01 No. 3 hrs/day
- Cost of electric energy is Rs.3/- per unit.
