

Seat No.: \_\_\_\_\_

Enrolment No. \_\_\_\_\_

## **GUJARAT TECHNOLOGICAL UNIVERSITY**

**BH- SEMESTER- V EXAMINATION – WINTER 2018**

**Subject Code:153306**

**Date:01/12/2018**

**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.**

**Q.1 (a)** Elaborate the scope and function of Hotel Engineering And Maintenance Department? **07**

**(b)** List the duties and responsibilities of the chief engineer in a hotel showing the typical organizational chart of the engineering department of a large hotel. **07**

**Q.2 (a)** Categorize different types of maintenance, as used in hotel industry, citing example to each of them. **07**

**(b)** What is the function of a transformer in an electric transmission and distribution system? **07**

**OR**

**(b)** Explain replacement and the advantages of replacement. **07**

**Q.3 (a)** Explain functioning of a gas burner and list different types of gas burners. **07**

**(b)** Prepare a table showing different types of extinguishers used in different types of fire. **07**

**OR**

**Q.3 (a)** Discuss flame and explain how the appearance of the flame in a burner can indicate the condition of burning. **07**

**(b)** Draw a neat sketch of a central air-conditioning system indicating the main components on it. **07**

**Q.4 (a)** Draw a line sketch of a typical cold-water distribution system supplied by civic body water mains. **07**

**(b)** Explain the importance of proper maintenance in the hotel industry. **07**

**OR**

**Q.4 (a)** Discuss about the testing and maintenance of automatic water-sprinkler system. **07**

**(b)** Define Fuels and advantages and disadvantages of fuels. **07**

**Q.5 (a)** Discuss in brief about the maintenance procedure of a swimming pool. **07**

**(b)** Define Heat and temperature, giving their units of measurement. **07**

**OR**

**Q.5 (a)** Discuss preventive maintenance and reactive maintenance, indicating their relative advantages and disadvantages. **07**

**(b)** Explain different policies of replacement **07**

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