



**UNIVERSITY EXAMINATIONS**  
**THIRD YEAR EXAMINATION FOR THE AWARD OF**  
**THE BACHELLOR OF HOTEL AND HOSPITALITY MANAGEMENT**  
**FIRST SEMESTER 2023/2024**  
**[AUGUST-DECEMBER, 2023]**

**BTOM 305: SAFETY SECURITY AND ENGINEERING**  
**STREAM: Y3 S1** **TIME: 2 HOURS**

**DAY: THURSDAY, 12.00 – 2.00 P.M.** **DATE: 30/11/2023**

**INSTRUCTIONS**

- 1. Do not write anything on this question paper.***
- 2. Answer Questions ONE and any other THREE Questions***

**QUESTION ONE**

- a). What do you understand by the term 'energy'? Using relevant examples differentiate between renewable and non-renewable sources of energy in your locality. (5marks)
- b). Draw an organisation chart of maintenance department of a 200 room hotel (5marks)
- c). What is LPG? Explain its advantages and disadvantages (5marks)
- d). What are the different ways in which hard water can be treated for further use? (5marks)

e).All structural designing should aim at a smooth workflow in every area of an establishment. Enumerate the structural inadequacies that can jeopardize safety at the place of work. (5marks)

## **SECTION B**

### **QUESTION TWO**

- a) Mention **ten steps** that should be taken to make a hotel more fire-safe (5marks)
- b) Classify and explain different fires. Prepare a table showing different extinguishers used for different types of fire (10marks)

### **QUESTION THREE**

- a). Mention **ten** important duties and responsibilities of Chief Engineer of a hotel (5marks)
- b). Describe briefly the complaint register-cum-work order system of fault rectification (10marks)

### **QUESTION FOUR**

- a). Advances in technology have now a number of safety devices to offer to establishments for enhancing their security systems. Mention and discuss use of security equipment in hotel industry (10marks)
- b). Explain the reason under which equipment are replaced (5marks)

### **QUESTION FIVE**

- a). X is a worker in an office and Y is a housewife. Explain and discuss suggestions you would give them to conserve energy in their office and home respectively. (5marks)
- b).With relevant examples, discuss different types of pollution related to a hotel (10marks)