



UTHM

Universiti Tun Hussein Onn Malaysia

UNIVERSITI TUN HUSSEIN ONN MALAYSIA

FINAL EXAMINATION SEMESTER II SESSION 2023/2024

- COURSE NAME : FIRE PROTECTION AND SECURITY SYSTEM
- COURSE CODE : BNB 31603
- PROGRAMME CODE : BNB
- EXAMINATION DATE : JULY 2024
- DURATION : 3 HOURS
- INSTRUCTIONS :
1. ANSWER **ALL** QUESTIONS
 2. THIS FINAL EXAMINATION IS CONDUCTED VIA
 - Open book
 - Closed book
 3. STUDENTS ARE **PROHIBITED** TO CONSULT THEIR OWN MATERIAL OR ANY EXTERNAL RESOURCES DURING THE EXAMINATION CONDUCTED VIA CLOSED BOOK

THIS QUESTION PAPER CONSISTS OF **THREE (3)** PAGES

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- Q1** (a) Categorize with explanation **THREE (3)** fire safety standard in Malaysia.
(9 marks)
- (b) There are eight (8) parts of the Fire Services Act was enacted in 1988, explain **FIVE (5)** of them.
(10 marks)
- (c) A fire drill is a method of practicing how a building should evacuate in the event of a fire or other emergencies. Discuss **THREE (3)** importance of Fire Drill.
(6 marks)
- Q2** (a) The data and measurements discovered during audits and inspections are often used to assist a company in determining if they are achieving their safety and health goals. Compare and explain between audit and inspection.
(10 marks)
- (b) Building fire audit is an examination of your business premises and relevant documents by fire safety inspectors, to ascertain how your premises are being managed with regards to fire safety. Organize a report containing; Why a fire audit is needed? What document are required during the fire audit process? and What happen after the fire audit?
(15 marks)
- Q3** (a) Give definition of telecommunication network.
(4 marks)
- (b) Explain **THREE (3)** parts or planes in the telecommunication network conceptual.
(6 marks)

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- (c) According to Occupational Safety and Health Administration (OSHA) – Fire Services Features of Building and Fire Protection System, illustrate and evaluate the process of fire department communication system (two-way telephone system) in high-rise buildings.

(15 marks)

- Q4** (a) A security alarm is a system designed to detect unauthorized intrusion or entry into a building or area. As a professional building service technologist, classify the reasons why a security system is necessary.

(3 marks)

- (b) Distinguish between **SIX (6)** types of sensors that alarm systems use to detect an intruder.

(12 marks)

- (c) Telecommunications are refer to the electronic transmission of information over distances. Interpret **FIVE (5)** elements involved in the communication process.

(10 marks)

- END OF QUESTIONS -

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