

## UNIVERSITI TUN HUSSEIN ONN MALAYSIA

## FINAL EXAMINATION SEMESTER II **SESSION 2021/2022**

COURSE NAME

: FIRE PROTECTION & SECURITY

**SYSTEM** 

COURSE CODE : BNB 31603

PROGRAMME CODE : BNB

EXAMINATION DATE : JULY 2022

DURATION

: 2 HOURS 30 MINUTES

INSTRUCTION

: 1. ANSWER ALL QUESTIONS.

2. THIS FINAL EXAMINATION IS

CONDUCTED VIA CLOSED

BOOK.

3. STUDENTS ARE PROHIBITED

TO CONSULT THEIR OWN

MATERIAL OR ANY

**EXTERNAL RESOURCES** 

**DURING THE EXAMINATION** 

VIA CLOSED BOOK.

THIS QUESTION PAPER CONSISTS OF THREE (3) PAGES



Q1	(a)	Explain THREE (3) fire safety standards in Malaysia.
		(6 marks)
	(b)	For effective fire protection, building constructions must be able to support their structural loads during a fire, contain the spread of smoke and fire gases, and prevent excessive heat flow for a reasonable time. With the aid of illustrations select <b>THREE</b> (3) suitable fire protection techniques for steel columns.  (12 marks)
	(c)	Explain in detail the procedure of the fire drill. (7 marks)
Q2	(a)	Differentiate between Fire Safety Audit and Fire Risk Assessment.  (6 marks)
	(b)	List FOUR (4) criterions that should be considered in Fire Risk Assessment.  (4 marks)
	(c)	Briefly write the process of Fire Risk Assessment.  (15 marks)
Q3	(a)	Define the function of security alarm.  (5 marks)
	(b)	The component of an alarm system that detects activity is called a sensor.  Differentiate between Passive Infrared (PIR) and Microwave (MW) sensor.  (8 marks)
	(c)	Technology has changed the face of the security industry. In your opinion, justify

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(12 marks)

whether the changes are good or not.

Q4 (a) Explain briefly about network.

(5 marks)

(b) Telecommunications are a means of electronic transmission of information over a distance. Explain **FIVE** (5) elements in the communication process.

(15 marks)

(c) Identify **FIVE** (5) technology that used satellite application.

(5 marks)

- END OF QUESTIONS -

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