

UNIVERSITI TUN HUSSEIN ONN MALAYSIA

FINAL EXAMINATION SEMESTER II SESSION 2022/2023

COURSE NAME

FIRE PROTECTION & SECURITY

SYSTEM

COURSE CODE

: BNB 31603

PROGRAMME CODE

BNB

EXAMINATION DATE

JULY/AUGUST 2023

DURATION

3 HOURS

INSTRUCTIONS

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 CONDUCTED VIA CLOSED BOOK.

THIS QUESTION PAPER CONSISTS OF THREE (3) PAGES

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Q1 (a) There are eight (8) parts of the Fire Services Act was enacted in 1988, explain THREE (3) of them.

(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 THREE (3) suitable fire protection techniques for steel beams.

(12 marks)

(c) The effect of fire from inside buildings on exterior structure members can be reduced by distance or by flame-shields. Analyze how steel cladding can deflect heat and flames from the burning buildings.

(7 marks)

Q2 (a) Give the definition of fire safety audit and explain its objectives.

(5 marks)

(b) You are the building manager or facility manager who has been assigned to carry out work related to the fire audit in the building. Prepare a report on the results of the audit and each process must be clearly explained according to the standards that have been set.

(20 marks)

Q3 (a) Classify the types of security and alarm systems commonly used in buildings. Describe the key components of each system and their functions.

(16 marks)

(b) Compare and explain the advantages and disadvantages of wired and wireless security systems. In what situations would you recommend using one over the other.

(9 marks)



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Q4 (a) Give definition of the telecommunication 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) technologies that are used/based on satellite applications.

(5 marks)

- END OF QUESTIONS -

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