

UNIVERSITY EXAMINATIONS

1ST SEMESTER 2022/2023 ACADEMIC YEAR

FOURTH YEAR EXAMINATION FOR THE DEGREE
BACHELOR OF ARTS IN CRIMINOLOGY AND
SECURITY STUDIES

CRSS 416: FIRE & SAFETY PROTECTION

STREAM: R

TIME: 2 HRS

DAY: FRIDAY [8.30AM – 10.30AM] DATE: 09/12/2022

THIS QUESTION PAPER CONSISTS OF TWO (2) PAGES

PLEASE DO NOT OPEN UNTIL THE INVIGILATOR SAYS SO.

INSTRUCTIONS: Answer all questions in **SECTION A** and any **TWO** in **SECTION B**

SECTION A (30 MARKS)

QUESTION ONE

- (a) There are a number of convincing arguments for the promotion of good safety standards. Discuss. (10 Marks)
- (b) Examine the Legal Framework for Regulation of Fire Safety. (10 Marks)
- (c) The fire triangle is a well-known representation of the three variables needed to initiate a fire. Examine this statement as it relates to fire chemistry. (10 Marks)

SECTION B (40 MARKS)

QUESTION TWO

- (a) Outline requisite elements of a management programme for Fire hazard analysis/reduction. (10 Marks)
- (b) Enumerate key questions upon which Methods used to combat the hazards of flammable liquids must be based. (10 Marks)

QUESTION THREE

- (a) Examine the key differences between monitoring performance and auditing in fire Safety audit. (10 Marks)
- (b) Discuss factors that should be considered in choosing a particular automatic fire detector. (10 Marks)

QUESTION FOUR

- (a) Examine the fundamental principles of fire prevention. (10 Marks)
- (b) Outline the objectives of fire safety in a fire prevention programme action plan. (10 marks)

QUESTION FIVE

- (a) The design of thermal detectors permits them to operate from thermal output or the heat from a fire. Discuss. (10 Marks).
- (b) Discuss the four basic types of automatic sprinkler systems. (10 Marks)