

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

FIRST YEAR EXAMINATION FOR THE AWARD OF CERTIFICATE IN
CRIMINOLOGY AND SECURITY STUDIES

CRSS 00113: FIRE SAFETY AND PROTECTION

STREAMS: CERT Y1S3

TIME: 2 HOURS

DAY/DATE: WEDNESDAY 5/12/2018

8.30A.M - 10.30 A.M.

INSTRUCTIONS:

- Answer Question ONE and any other TWO
- Section A carries 30 Marks and Section B Carries 40 Marks

SECTION A

QUESTION ONE

- (a) Explain different classes of fire that can be experienced in an organization or a premise. [10 Marks]
- (b) Outline any seven functions of fire safety committees. [14 Marks]
- (c) Identify six objectives of fire suppression systems. [6 Marks]

SECTION B

QUESTION TWO

- (a) Assume that you are a fire professional expert and you have been asked to calculate the fire load of a fire that occurred in a particular institution. Explain the factors you would consider in your calculation. [6 Marks]
- (b) Differentiate between smothering and smouldering of a fire. [4 Marks]
- (c) Explain any five signs of back draught of a fire. [10 Marks]

QUESTION THREE

- (a) Discuss the growth stage of fire in the life cycle of fire. [10 Marks]
- (b) Define the term fire. [2 Marks]
- (c) Elaborate four different methods of controlling fire. [8 Marks]

QUESTION FOUR

- (a) Explain the recovery process after the fire incidence in a particular place. [10 Marks]
- (b) Using relevant examples, discuss the causes of fire. [10 Marks]

QUESTION FIVE

- (a) Explain the elements of fire. [8 Marks]
 - (b) Define the following terminologies;
 - (i) Pyrolysis [2 Marks]
 - (ii) Fire drill [2 Marks]
 - (iii) Back draught [2 Marks]
 - (c) Explain by use of examples two types of fire. [6 Marks]
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