

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

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

CRSS 435: PHYSICAL SECURITY II

STREAMS: BSC (CRSS)

TIME: 2 HOURS

DAY/DATE: THURSDAY 06/04/2020

11.30 A.M. – 1.30 P.M.

INSTRUCTIONS: Answer question ONE (Compulsory) and any other TWO questions

1. (a) Explain 3 security design considerations [6 marks]
(b) Explain the following security concepts:
 - (i) Single factor authentication [3 marks]
 - (ii) Dual factor authentication [2 marks]
 - (iii) Fail safe technology [2 marks]
 - (iv) Fail secure technology [2 marks](c) Describe the process involved in planning for an all-digital security function [15 marks]
2. You are required to prescribe the most appropriate locking systems for an organization facing cases of employee theft. Describe various types of locking systems highlighting their weaknesses before you prescribe the most appropriate locking systems. [20 marks]
3. Discuss various types of biometric systems and examine their potential strengths and weaknesses [20 marks]
4. As the security manager mandated with ensuring automation of access control, describe various card technologies used in regulating access and recommend the most appropriate card technology [20 marks]
5. Examine how you can incorporate the concept of protection in-depth in securing an educational institution of your choice. [20 marks]