(Knowledge for Development)

KIBABII UNIVERSITY
(KIBU)
UNIVERSITY EXAMINATIONS
2017/2018 ACADEMIC YEAR

END OF SEMESTER EXAMINATIONS
YEAR 1 SEMESTER 2

FOR THE DEGREE OF
MASTER OF SCIENCE (INFORMATION TECHNOLOGY)

COURSE CODE   : MIT 822

COURSE TITLE   : INFORMATION SECURITY
MANAGEMENT

DATE: 19/10/2018   TIME: 2.00 PM – 5.00 PM

INSTRUCTIONS TO CANDIDATES
ANSWER QUESTION ONE AND ANY OTHER TWO QUESTIONS.

SECTION A (Compulsory – 20 Marks)

QUESTION ONE

a) Discuss the rational to justify the development of a comprehensive IT plan and an IT vision. (4 Marks)

b) Explain the concept of Digital Rights Management (4 Marks)

c) Explain three characteristics that make a data communication system effective (6 Marks)

d) (i) Distinguish between a policy and a standard (2 Marks)

   (ii) Explain the factors that make a policy to be effective (4 Marks)

SECTION B (Attempt any two questions – 40 Marks)

QUESTION TWO

a) Distinguish between security and privacy (4 Marks)

b) A number of forms of intellectual property are relevant in the context of network and computer security.

   Describe three prominent intellectual property in computing (6 Marks)

c) Discuss an incident response plan (10 Marks)

QUESTION THREE

d) You have been tasked to oversee the design of your university's ICT policy.

Outline what you would expect to be part of the policy in regard to each of the following:

    i) Use of email   (8 Marks)

    ii) Privacy when using organization's ICT equipment   (6 Marks)

    iii)Reporting Breaches of the ICT Policy   (6 Marks)

QUESTION FOUR

a) Discuss the components of an issue specific security policy   (8 Marks)

b) Discuss the concept of Network auditing in relation to Information Security Management

                                                             (8 Marks)

c) Discuss the characteristics of an issue specific security policy   (4 Marks)

QUESTION FIVE

a) Explain three characteristics that make a data communication system effective   (6 Marks)

b) Explain how effective disaster can be achieved in an organization after a recover.

                                                                (6 Marks)

c) Explain the importance of a professional code of conduct in an organization   (8 Marks)