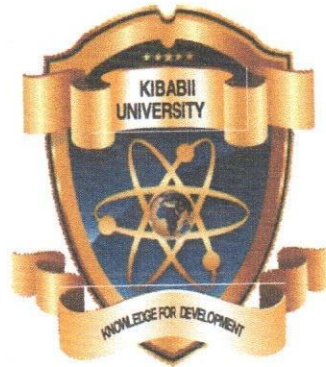


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*(Knowledge for Development)*

**KIBABII UNIVERSITY  
(KIBU)**

**UNIVERSITY EXAMINATIONS  
2021/2022 ACADEMIC YEAR**

**END OF SEMESTER EXAMINATIONS  
YEAR TWO SEMESTER TWO**

**FOR THE DEGREE OF MASTER OF  
SCIENCE IN  
(INFORMATION TECHNOLOGY)**

**COURSE CODE : MIT 826**

**COURSE TITLE : EMERGING RESEARCH  
ISSUES IN IT**

**DATE: 19/06/2022 TIME: 9.00 A.M - 12.00NOON**

**INSTRUCTIONS TO CANDIDATES  
ANSWER ONE QUESTION FROM SECTION A AND ANY  
TWO QUESTIONS FROM SECTION B**

## SECTION A

### QUESTION ONE [20 MARKS]

- (a) Explain three reasons that would make you to want to join a professional body. **(6 Marks)**
- (b) An organization you are working with is planning to purchase new hardware technologies for efficient service delivery. Discuss some of the issues and corresponding solutions that may emerge out of these venture in the organization. **(5 Marks)**
- (c) Discuss the 5G wireless technology as one of the emerging technologies. **(3 Marks)**
- (d) In order to elicit security requirements one should have the knowledge regarding security issues - The security triad (confidentiality, integrity and availability). Discuss each of these issues (confidentiality, integrity and availability). **(6 Marks)**

### QUESTION TWO [20 MARKS]

- (a) Highlight the state of Privacy in your country and discuss the role of the regulatory body for example, in Kenya - the Communication Authority of Kenya (CA) in relation to the right to privacy **(8 Marks)**
- (b) Discuss how Kenya's new personal data protection law could affect researchers. **(12 Marks)**

## SECTION B

### QUESTION THREE [20 MARKS]

- (a) Describe open source software, highlighting its pros and cons to the users **(10 Marks)**
- (b) Discuss the pros and cons that are associated with the use of social media on today's society globally. **(10 Marks)**

### QUESTION FOUR [20 MARKS]

- (a) Explain some of the ethical issues that arise from the use of open source software. **(4 Marks)**
- (b) A code of ethics is a document that outlines a set of acceptable behaviors for a professional or social group; generally, it is agreed to by all members of the group. Design a sample document that could be used by an organization as the organization's Code of Ethics and Professional Conduct **(8 Marks)**

(c) Discuss the need for a Code of Ethics and Professional Conduct to an organization  
(8 Marks)

**QUESTION FIVE [20 MARKS]**

Discuss each of these intellectual property protection mechanisms in relation to your country.

a) Copyright

(9 Marks)

b) Patent

(6 Marks)

c) Trademark

(5 Marks)