



**KISII UNIVERSITY**  
**UNIVERSITY EXAMINATIONS**

**SECOND YEAR EXAMINATION FOR THE AWARD OF THE DEGREE OF  
BACHELOR OF INFORMATION TECHNOLOGY**

**FIRST SEMESTER 2023/2024**  
**[JAN - APRIL, 2024]**

**INS 250: INFORMATION COMMUNICATION TECHNOLOGY**

**STREAM: Y2 S1**

**TIME: 2 HOURS**

**DAY: WEDNESDAY, 3:00 - 5:00 P.M.**

**DATE: 17/04/2024**

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**INSTRUCTIONS**

- 1. Do not write anything on this question paper.**
- 2. Answer question ONE (Compulsory) and any other TWO questions.**

**QUESTION ONE**

- a) Explain briefly why one needs a backup system for Library Information systems and outline three possible methods of backing up your data files. (10 marks)
- b) Define the term computer virus and briefly describe how an organization can prevent viruses from entering their systems. (6 marks)
- c) Explain the meaning of the following terminologies (6 marks)
  - i. Spyware
  - ii. Adware
  - iii. Spam
- d) Differentiate between application software and system software (4 marks)
- e) Briefly describe any two functions of an Operating system (4 marks)

**QUESTION TWO**

- a) Discuss common E-Commerce security threats and suggest their appropriate solutions. (12 Marks)
- b) What is computer crime? (2 Marks)
- c) Describe any three computer crimes in the Library (6 Marks)

### QUESTION THREE

Standards are very important in an ICT department but unfortunately they are always not in place. As a newly employed ICT manager, an important task for you is to implement a standard manual.

- a) Explain **FOUR** reasons why a standard manual is important and why each department should have one (8 marks)
- b) Give and explain **SIX** tasks that you should include in the standard manual (12 marks)

### QUESTION FOUR

- a) Describe the meaning of the terminology ergonomics when applied to computer equipment (3 marks)
- b) Describe **FOUR** hazards that a computer equipment may present to its users and how these hazards may arise (8 marks)
- c) Describe any three network topologies (9 marks)

### QUESTION FIVE

- a) In the context of Information systems, state and explain the **FIVE** characteristics of a system (10 marks)
- b) An information system is essentially a group of components working together to capture and deliver information to users. What are these components (6 marks)
- c) Explain the following terms as used during system analysis (4 Marks)
  - i. Prototyping
  - ii. Fact finding