



**JARAMOGI OGINGA ODINGA
UNIVERSITY OF SCIENCE AND TECHNOLOGY
SCHOOL OF INFORMATICS AND INNOVATIVE SYSTEMS
UNIVERSITY EXAMINATION FOR THE DEGREE IN BACHELOR OF SCIENCE
IN INFORMATION COMMUNICATION TECHNOLOGY
AND
THE DEGREE IN BACHELOR OF SCIENCE
IN
BUSINESS INFORMATION SYSTEMS
4TH YEAR, 1ST SEMESTER**

COURSE CODE: ITB 1401

COURSE TITLE: CYBER LAW

VENUE: AH

STREAM: BIS

DATE: 9/1/25

EXAM SESSION: 9-11.00 AM

TIME : 2 HOURS

INSTRUCTIONS

- 1. Answer QUESTION ONE [Compulsory] and any other TWO other questions.**
 - 2. Candidates are advised not to write on the question paper.**
 - 3. Candidates MUST hand in their answer booklets to the invigilator while in the examination room.**
 - 4. Mobile phones are not allowed in the examination room.**
 - 5. Write legibly**
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QUESTION ONE [COMPULSORY]

[30 Marks]

[a] In using electronic signatures in Kenya for an advanced electronic signature and for them to be reliable, a number of conditions must be met .Explain . **[8 Marks]**

[b] There are specific challenges in cross-border data transfers .Discuss three of these conditions **[6 Marks]**

[c] Discuss the various tests of jurisdiction in Cyberlaw **[6 Marks]**

[d] Digital forensics "is underpinned by [forensic principles, such as Edmond] Locard's exchange principle" Explain. **[5 Marks]**

[e] Distinction between encryption and decryption **[5 Marks]**

QUESTION TWO

[20 Marks]

[a] Explain circumstances under which requests for mutual assistance may be refused. **[6 Marks]**

[b] Discuss five models of e-commerce. **[10 Marks]**

[c] Briefly four offences in the Computer Misuse and Cybercrimes Act, 2018. **[4 Marks]**

QUESTION THREE

[20 Marks]

[a] Numerous intrusion detection methods have been proposed in the literature to tackle computer security threats, which can be broadly classified into Signature-based Intrusion Detection Systems (**SIDS**) and Anomaly-based Intrusion Detection Systems (**AIDS**). Discuss **[10 Marks]**

[b] Internet censorship can take on many forms. Explain. **[10 Marks]**

QUESTION FOUR

[20 Marks]

[a] There are four main types of cybercrime prevailing in the system: Discuss. **[4 marks]**

[b] State indication of intrusions in system intrusions, file intrusions and network intrusions. **[10 Marks]**

[c] Challenges faced by forensic investigators. **[6 Marks]**

QUESTION FIVE

[20 Marks]

Write concise notes on **any five** of the following

[a] Gopher Protocol

[d] Distinction among internet, intranet and extranet

[b] Difference between electronic signature and digital signature

[e] Types of intruders

[c] Dynamic data masking

[f] Smart vehicle forensics