PAN AFRICA CHRISTIAN UNIVERSITY

Where Leaders are Made

UNIVERSITY EXAMINATIONS: 2025/2026

EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY

BIT 402

BIT

INFORMATION SYSTEMS SECURITY & AUDIT

END TERM EXAMINATION

EXAM DATE: **FRIDAY** **ONLINE**

TIME: **5:30PM – 8:30PM**

DATE: DECEMBER, 2025 **TIME: 2 HOURS**

INSTRUCTIONS: Question One is Compulsory, Choose Three Other Questions

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INSTRUCTIONS

- This exam carries a total of SIX Questions of [10 Marks Each]
- Section One (I) is compulsory.
- Answer any 3(Three) Questions from Section Two (II)
- Read all questions carefully before attempting.

Section ONE Compulsory

Question One

a) Describe How a thorough understanding of information systems lay the foundation for effective IT audits. **[2 marks]**

b) Your Audit firm has been awarded a tender to participate in auditing KUSSPS database on student's placement exercise in university placement for 2022.

i. Outline THREE key steps you will involve in planning an information systems audit for the same parastatal. **[6 marks].**

ii. Explain the concept of risk assessment in the context of information systems audits. **[2 marks]**

Section Two (II) Answer any 3 questions

Question Two.

a) Explain the significance of data availability and accessibility for information systems audits. **[3 marks]**

b) How does the timely access to relevant data contribute to the efficiency of the audit process? **[3 marks]**

c) All audits follow a similar sequence of activities and may be divided into four stages: (Planning, collecting evidence, evaluating evidence and Communicating audit results, Discuss the metrics you would apply as an Auditor at the forementioned levels. **[4 marks]**

Question THREE 10 Marks:

a) Differentiate between sufficiency and competency of date as used in forensics audit investigations. **[4 marks]**

b) Interpret the following concepts as used in Audit Engagements. **[6 marks]**

i. Materiality
ii. Irregularities
iii. Audit Staffing

Question FOUR 10 Marks:

Goodman & Lawless states that there are three specific systematic approaches to carry out an IT audit under the following classifications; Debate each of the TWO as listed below.

i. Debate how can auditors assess the alignment of innovation initiatives with the overall business strategy during a systems audit. **[5 marks]**
ii. Explore how the introduction of innovative systems has influenced audit methodologies. **[5 marks]**

Question Five 10 Marks:

a) Interpret any FOUR Major factors a Chief Audit Executive (CAE) and the internal audit team should consider in developing their audit plan. **[4 marks]**

b) Provide an overview of THREE common vulnerabilities found in IT systems and show how organizations prioritize addressing these vulnerabilities based on potential risks and impacts to information systems. **[6 marks]**

Question Six 10 Marks:

Several IT governance frameworks exists to help any Chief Audit Executives (CAE's) and internal audit teams develop the most appropriate risk assessment approach for their organization.

Evaluate any TWO of the listed Most Known set frameworks you handled in your assignment case studies;

a) **COBIT,** **[5 marks]**
b) International Organization for Standardization's **(ISO's)** 27000 Standard series. **[5 marks]**

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