



## ZIMBABWE EZEKIEL GUTI UNIVERSITY

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FACULTY OF SCIENCE, TECHNOLOGY, AGRICULTURE AND FOOD  
SYSTEMS DEVELOPMENT

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### INFORMATION SYSTEMS DEPARTMENT

#### EXAMINATION PAPER

**COURSE CODE** : BIS423  
**COURSE TITLE** : IT Audit and Control  
**DURATION** : 3 Hours  
**LEVEL** : 4.2  
**DATE** : 2024 23 SEP 2024

#### INSTRUCTIONS TO CANDIDATES:

1. Answer all the questions.
2. Each question carries 25 Marks.

### Question 1

- a. An ideal password authentication scheme must withstand several attacks. Describe five of these attacks [15]
- b. There are two main approaches to the implementation of information security within an organization: bottom up and top down. Provide an overview of each and discuss which, in your opinion, is likely to be more successful [10]

### Question 2

- a. Describe how a man in the middle attack may be performed on a Wi-fi network and the consequences of such an attack [14]
- b. Explain the concept of segregation of duties and its importance in IT environments [11]

### Question 3

Security policy involves a thorough understanding of the organization business goals and its dependence on information security. What are the areas which should be covered under this policy? Also mention controls and objectives [25]

### Question 4

What is the role of the IT audit function in the overall risk management process? [25]