



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY
SCHOOL OF INFORMATICS AND INNOVATIVE SYSTEMS
DEPARTMENT OF INFORMATION SYSTEMS AND TECHNOLOGY
UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHOLER IN SCIENCE
BUSINESS INFORMATION SYSTEMS (BIS)

2ND YEAR, 2ND SEMESTER 2024/2025 ACADEMIC YEAR

MAIN CAMPUS

COURSE CODE: ITB2206

COURSE TITLE: IT for Business

EXAM VENUE: CL 2

STREAM:

DATE: 16/4/2025

EXAM SESSION: 15.00-17.00

TIME: 2 HOURS

INSTRUCTIONS

1. Answer QUESTION ONE (Compulsory) and ANY other two 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. No mobile devices (e.g. laptops, phones. e.t.c.) are allowed into the Examination Room

QUESTION ONE**(30 MARKS)**

- (a) Distinguish between IT and ICT (5 marks)
- (b) With advent of mobile phones, there has been an avalanche in terms of development of new mobile operating systems. Describe **FIVE** mobile operating systems (5 marks)
- (c) Computer storage has kept on improving with time. The initial ones taking huge space and needing lots of power to operate. Differentiate between
 - (i) HDD and SSD (2 marks)
 - (ii) RAM and ROM (2 marks)
 - (iii) Bit and Byte (2 marks)
- (d) Describe **FIVE** Impacts of IT on business strategy and competitive advantage (5 marks)
- (e) What are the basic steps involved in a general troubleshooting process? (4 marks)
- (f) Define Business Application Tools. Explain using relevant examples their importance in a business set up. (5 marks)

QUESTION TWO**(20 MARKS)**

- (a) Compare and contrast the scenarios where using a spreadsheet would be more appropriate than a relational database, and vice versa, when generating financial reports for a growing small business. (10 marks)
- (b) Explain how the principle of 'normalization' in relational databases contributes to the accuracy and efficiency of generating business plans, and discuss how a lack of similar data organization principles in spreadsheets can lead to potential errors in financial forecasting (10 marks)

QUESTION THREE**(20 MARKS)**

- (a) Discuss the role of cloud computing in the functioning of modern businesses? Support your answer with specific examples (10 marks)
- (b) How can organizations ensure the security of their data during cloud migration? (10 marks)

QUESTION FOUR**(20 MARKS)**

- (a) Explain the critical role of data analytics in driving informed business decisions, and identify relevant analytical tools (8 marks)
- (b) Describe the terms below:
 - I. Data Management and Databases (4 marks)
 - II. Data analysis and Data Science (4 marks)
 - III. Data Type and data integrity (4 marks)

QUESTION FIVE**(20 MARKS)**

- (a) How has the rise of mobile technology and cloud computing influenced the development and deployment of information systems? (10 marks)
- (b) What role does AI and Machine learning play within modern information systems? (10 marks)

This is the last printed page