



**MASINDE MULIRO UNIVERSITY OF
SCIENCE AND TECHNOLOGY
(MMUST)**

**MAIN CAMPUS
UNIVERSITY EXAMINATIONS 2021/2022 ACADEMIC YEAR
THIRD YEAR SECOND SEMESTER EXAMINATIONS**

**FOR BACHELOR
OF
SCIENCE IN INFORMATION SYSTEMS AND KNOWLEDGE
MANAGEMENT**

COURSE CODE: BIT326

COURSE TITLE: ENTERPRISE COMPUTING

DATE: 21ST APRIL, 2022

TIME: 8:00-10:00AM

INSTRUCTIONS TO CANDIDATES

Answer Questions **ONE** and **ANY OTHER TWO**

TIME: 2 Hours

MMUST observes ZERO tolerance to examination cheating

This Paper Consists of 2 Printed Pages. Please Turn Over.

QUESTION ONE

- a) Explain in detail about Enterprise Technology. (5marks)
- b) Differentiate component based and object oriented software development. (6marks)
- c) List the java technology used for enterprise components. (6 marks)
- d) Briefly explain the J2EE components and container. (6marks)
- e) Draw the DBMS and DB architecture and explain it. (7 marks)

QUESTION TWO

- a) Explain (12 marks)
 - i) RDBMS
 - ii) ODBMS
 - iii) Relational/Object translation
 - iv) RDBMSs vs ODBMSs
- b) Explain in detail about JDBC architecture. (8marks)

QUESTION THREE

- a) What are the main classes and interfaces of JDBC? (10 marks)
- b) Explain the concepts of interface with an example. (5marks)
- c) Explain the concept of CORBA Communication? (5marks)

QUESTION FOUR

- a) Briefly explain web server architecture? (6marks)
- b) Explain the concepts of simple API for XML (SAX) with example? (6marks)
- c) Differentiate (8 marks)
 - i. JSP and ASP?
 - ii. JSP and Java Servlet?

QUESTION FIVE

- a) What is XML? Explain how can you create XML document with example? (5marks)
- b) Explain the concepts of Java Servlet with an example? (5 marks)
- c) What is EJB? Explain about EJB architecture. (10 marks)
using Definition, Diagram, Varieties of bean and Entity relationship