



(Knowledge for Development)

KIBABII UNIVERSITY

(KIBU)

UNIVERSITY EXAMINATIONS 2019/2020 ACADEMIC YEAR

SPECIAL/SUPPLEMENTARY EXAMINATIONS YEAR THREE SEMESTER TWO EXAMINATIONS

FOR THE DEGREE OF BACHELORS OF SCIENCE (INFORMATION TECHNOLOGY)

COURSE CODE : BIT 323

COURSE TITLE: INTEGRATIVE PROGRAMMING

DATE: 1/02/2021

TIME: 2.00 P.M - 4.00 PM

INSTRUCTIONS TO CANDIDATES

ANSWER QUESTIONS ONE AND ANY OTHER TWO

INSTRUCTIONS TO CANDIDATES

Answer Questions ONE and ANY OTHER TWO.

QUESTION ONE (COMPULSORY) [30 MARKS]	
1. Discuss the role of scripting languages in programming	[4marks]
2. Describe the structure for XML Data	[6marks]
3. There are two mechanisms that can be used to specify an XML Schema. State and explain	
	[4marks]
4. Define Document Type Definition (DTD)	[2marks]
5. Describe the two styles that can be used message queuing	[4marks]
6. State five reasons why integration is important	[5marks]
7. List the five steps involved in passing messages in a messaging transaction	[5marks]
QUESTION TWO [20 MARKS]	
Define message queuing	[2marks]
Explain why one would prefer DCOM over COM architecture	[6marks]
3. Differentiate between Evidence-based security and Code access security	[4marks]
4. Write a simple bank DTD that has the following elements: Bank, Account, Cust	omer and
Depositor.	[8marks]
QUESTION THREE [20 MARKS]	
1. Explain how COM could solve the versioning problems as well as providing co	
services without undue overhead.	[8marks]
2. Explain why XML is a better language for use in inter-program communication	
	[4marks]
3. Describe interoperability	[4marks]
4. Explain when one is most likely to get the dreaded "Can't Create Object" messa	age in a
DCOM transaction.	[4marks]
QUESTION FOUR [20 MARKS]	
1. Describe the three integration models that can be used to integrate systems	[6marks]
Discuss how an RMI application works	[8marks]
3. Explain why XML is said to be self-documenting	[1marks]
4. What is the difference between data level and function level integration mod	
model is more complex and why?	[5marks]
QUESTION FIVE [20 MARKS]	
1. There are four methods used in application integration. Discuss	[8marks]
2. Explain the function of xPath as used in XML	[2marks]
3. Within a CORBA development process, there are a number of unique terms spec	ific to a
CORBA implementation. Describe the following terms.	[6marks]
a. Interoperability Croup	
4. Define	[4marks]
a. Intersystem communications	
b. Intersystem Architecture	