



(Knowledge for Development)

KIBABII UNIVERSITY

(KIBU)

UNIVERSITY EXAMINATIONS 2020/2021 ACADEMIC YEAR

END OF SEMESTER EXAMINATIONS YEAR TWO SEMESTER ONE EXAMINATIONS

FOR THE DIPLOMA IN INFORMATION TECHNOLOGY

COURSE CODE

BIT 323

COURSE TITLE

INTERGRATIVE PROGRAMMING

DATE: 13/10/2021

TIME: 9.00 A.M. - 11.00 A.M

INSTRUCTIONS TO CANDIDATES

ANSWER QUESTIONS ONE AND ANY OTHER TWO.

QUESTION #1 (COMPULSORY) [30 MARKS]

a)	Define the following terms as applied Integrative programming	(14 Marks)	
	L. Integrative Programming	(1) Warks)	
	ii. API		
	iii. Middleware iv. Metadata		
	iv. Metadata v. Web Services		
	vi. Design Patterns		
	vii. Interface		
b)			
c)	Differentiate between SOAP and REST as applied in integrative progra Define the term JSON RPC	amming (4 Marks) (2marks)	
d)	Which function is used to convert a JSON text into an object?	(2 mark)	
e)	what is a distributed architecture	(2 mouls)	
f)	What an abstract class is as applied in Java and how can it be used to act	chieve system	
-1	integration?	(4 mark)	
g)	What is CORBA	(2 mark)	
	QUESTION #2 [20 MARKS]		
a)	a) Inheritance and polymorphisms can be used to achieve intra system integration. Briefly		
b)	explain this two terms and the part they play in inter system integration Explain the procedure of how to transform JSON text to a JavaScript of What is integration model? Discuss the three integration models	1631 1 1	
		(omarks)	
	QUESTION #3[20 MARKS]		
Who	en designing soap message there are compulsory tags one must use With	l 1 C 1	
the state of a sold lifessage state any four compulsions to accompany			
Disc	cuss the five challenges that can hinder integration of two systems	(10Marks)	
	QUESTION #4[20 MARKS]		
What is a JSON Object and state its syntax			
State any five advantages and five disadvantages of ISON in parsing		(10 1)	
WII	at is the difference between Web Service Description Language (WSDI	and Universal	
DUS	cription, Discovery, and Integration (UDDI) services	(4 marks)	
State any three conditions that can make a web server RESTful		(3 marks)	
		(3 marks)	
	OHECTION HEIGH AND		
	QUESTION #5[20 MARKS]		
Desi	gn patterns can be organised using three ways. Discuss this methods	(6 Marks)	
Briefly discuss the four methods that can be used to integrate two systems			
Disc	uss any three types of inheritance as applied to Java	(6 Marks)	

a)

b)

a)b)c)

d)

a)b)c)