

KIBABII UNIVERSITY

UNIVERSITY EXAMINATIONS 2019/2020 ACADEMIC YEAR

END OF SEMESTER EXAMINATIONS YEAR FOUR SEMESTER TWO

FOR THE DEGREE OF COMPUTER SCIENCE

COURSE CODE

: CSC 466E

COURSE TITLE

: CLOUD COMPUTING

DATE: 10/11/2020

TIME: 2.00 P.M - 4.00 P.M

INSTRUCTIONS:

ANSWER QUESTIONS ONE AND ANY OTHER TWO

Page 1 of 3

QUESTION ONE [COMPULSORY] [30 MARKS]

a)	Define	e the following terms		
	i.	Cloud computing	[2 marks]	
	ii.	Virtualization	[2 marks]	
	iii.	Data center	[2 marks]	
	iv.	Hypervisor	[2 marks]	
b)	Outline FIVE characteristics of cloud [10 marks			
c)	Discus	Discuss THREE cloud computing service models [6 marks		
d)	Productivity applications replicate in the cloud some of the most common tasks that we are			
	used to performing on our desktop: from document storage to office automation and complete			
	deskto	desktop environments hosted in the cloud. Outline any THREE productivity		
	applic	ation	[6 marks]	
		QUESTION TWO [20 MARKS]		
a)	What	is the major revolution introduced by Web2.0	[2 marks]	
b)	State a	tate any two examples of Web2.0 applications. [2 marks		
c)	With t	With the aid of a diagram describe the Cloud Computing Reference Model.		
			[12 marks]	
d)	Distin	inguish between hybrid cloud and public cloud [4 marks]		
		OMEGINON THEFT (AND ADDICAL)		
		QUESTION THREE [20 MARKS]		
a)		be the following terms as used in AWS	[6 marks]	
		S3		
	ii.	EC2		
	iii.	EBS		
b)	Explai	n any five benefits of using AWS to organization	[10 marks]	
c)	Descri	he two disadvantages of using a public cloud	[4 marks]	

QUESTION FOUR [20 MARKS]

a) Describe the two main characteristics of a service oriented computing

[4 marks]

b) Describe any five components of the Eucalyptus cloud

[10 marks]

c) Describe any three properties of distributed systems that also characterize cloud computing

[6 marks]

QUESTION FIVE [20 MARKS]

a) Describe any five Security risks associated with Cloud computing

[10 marks]

b) Outline mitigation measures for each of the security risks mentioned in question 5a above.

[10 marks]