

MASENO UNIVERSITY **UNIVERSITY EXAMINATIONS 2016/2017**

FOURTH YEAR SECOND SEMESTER EXAMINATIONS FOR THE DEGREE OF BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY

MAIN CAMPUS

CIT 414: CLOUD COMPUTING AND EMERGING **APPLICATIONS**

Date: 25th July, 2017

Time: 3.30 - 6.30 pm

INSTRUCTIONS:

Answer ALL questions in PART A and any THREE questions in PART B

ISO 9001:2008 CERTIFIED



Instructions: There are TWELVE (12) questions in this paper. Answer ALL questions in PART A, and any THREE (3) questions in PART B.

TIME: 3 HOURS

PART A: (40 MARKS)

	LA	KI A: (40 MARKS)	
	QU	ESTIONS	
	1.	List any five benefits of cloud computing strategy.	(5 Marks)
	2.	Identify three basic cloud computing service models.	(6 Marks)
	3.	Differentiate distributed computing and grid computing.	(6 Marks)
	4.	What is paravirtualization? How does it differ from full virtualization?	(6 Marks)
W ##	5.	Highlight five defining characteristics of cloud computing.	(5 Marks)
	6.	List any five emerging applications in cloud computing.	(6 Marks)
	7.	Use appropriate diagram to illustrate a cloud computing reference architecture (CCRA) implementation.	(6 Marks)
	PART B: (60 MARKS)		
	8.	As a manager in-charge of Infrastructure as a Service (IaaS) in a	
		local cloud computing service provider, highlight some of the	
		security challenges your company is likely to experience.	(20 Marks)
4	9.	Discuss any four cloud computing drivers.	(20 Marks)
g T	10.	Write short notes on the following cloud computing standards:	(20 Marks)
		a. OpsWorksb. OpenStack	
	702	c. Amazon's Elastic Computing Cloud (EC2) d. Microsoft Azure	18
	11.	Does cloud computing pose threats to development of open source software? Discuss.	(20 Marks)
	12.	Describe the six of principles of cloud computing strategy.	(20 Marks)

END