

MASENO UNIVERSITY **UNIVERSITY EXAMINATIONS 2016/2017**

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

MAIN CAMPUS

CIT 204: NETWORK ADMINISTRATION AND MANAGEMENT

Date: 12th June, 2017

Time: 8.30 - 11.30 am

INSTRUCTIONS:

- Answer ALL questions in SECTION A and any other TWO from SECTION B
- · Write your registration number on all sheets of the answer book used.
- · Use a NEW PAGE FOR EVERY QUESTION attempted, and indicate number on the space provided on the page of the answer sheet.
- Mobile phones and PDAs are NOT allowed in the examination room.

MASENO UNIVERSITY

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COMPULSORY QUESTION {30 MARKS}

QUESTION 1

	Ā	<u>CESTION I</u>	
	a)	Explain any FIVE responsibilities of the network administrator.	(5 Marks)
	b)	Explain any FIVE possible outcomes of poor network administration and mana	_
	c)	Describe any FIVE areas covered by network management activities.	(5 Marks) (5 Marks)
	d)	Identify ways in which user training aids in effective network manadministration.	agement and (5 Marks)
	e)	- Post and the second post and the second and the	network
		i. DHCP Server service	(1 Marks)
7	,	ii. Authentication Service	(1 Marks)
		iii. DNS server service	(1 Marks)
		iv. Routing and Remote Access Service	(1 Marks)
		v. Remote Access Dial-In User Service	(1 Marks)
	f)	Discuss any FIVE software maintenance	(5 Marks)

SECTION B: ANSWER ANY TWO QUESTIONS {20 MARKS EACH}.

QUESTION 2

a) Discuss the preparation, planning and management of Network Operating Systems upgrade.

(8 Marks)

b) Describe the key activities in network asset management.

(8 Marks)

Write down a summary plan for physical network security implementation.

(6 Marks)

QUESTION 3

- a) Discuss network hardware maintenance activities; highlight what each activity is aimed at achieving.
 (8 Marks)
- b) Recommend a user support strategy for an enterprise network with several branches

(8 Marks)

 c) Discuss ways in which a network administrator can be up to date with emerging network security challenges.
(4 Marks)

QUESTION 4

a) Explain the role of Policies in network management and administration

(8 Marks)

- b) Describe any FOUR tasks that can be automated by the network administrator (4 Marks)
- c) Discuss a plan for implementing a decentralized authentication while ensuring centralized change management for an enterprise with multiple branches
 (8 Marks)

QUESTION 5

- A financial institution runs integrated mission critical applications that generate significant amounts of data on a daily basis. Recommend a backup strategy, pointing out key activities in the strategy.
- b) Discuss the key pillars of disaster recovery planning and management. (8 Marks)
- c) Design an asset tracking procedure

(6 Marks)

END OF EXAMS