Examination Date: 12th August 2013



## THE TECHNICAL UNIVERISTY OF MOMBASA

## Faculty of Engineering & Technology

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

DIPLOMA IN INFORMATION COMMUNICATION TECHNOLOGY (DICT 12J)

**EIT 2214: COMPUTER NETWORK MANAGEMENT** 

END OF SEMESTER EXAMINATION SERIES: AUGUST 2013
TIME: 2 HOURS

Examination Date: 12th August 2013

This paper consists of **FIVE** questions. Attempt question **ONE** and any other **TWO** questions Maximum marks for each part of a question are as shown This paper consists of **THREE** printed pages

## **Question One (Compulsory)**

a)	Describe the following network components giving an example of each:  (i) Hosts			
	(ii)	Shared peripherals		
	(iii)	Networking devices	/ <b>/</b>	
	(iv)	Networking media	(4 marks)	
b)	Explain the use of the following commands:			
	(i)	Ipconfig/ALL Tracert		
	(ii) (iii)	Tracert Pig	(6 marks)	
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c)	-	n the following: Full duplex transmission		
	(i) (ii)	Simplex		
	(iii)	Logical address		
	(iv)	Physical address	(10 mayles)	
	(v)	Half-duplex	(10 marks)	
Qu	estion	Two		
a)	Explain the following as applied to network operating system:			
	(i) (ii)	Active directory  Domain controller		
	(iii)	Domain Controller		
	(iv)	Universal naming system (UNC) give an example	(8 marks)	
b)	State a	ny <b>FOUR</b> network services provided by a typical network operating system.	(2 marks)	
c)	What does "RAID" stand for? Explain RAID level O and 1 stating the function of each.			
<b>4</b> )	Evnlai	n protocol analyzer.	(6 marks) (4 marks)	
•	-		(4 marks)	
Qu	estion	Three		
a)	Descri	Describe the functions of firewalls. (2 marks)		
b)	Describe functions of only three types of proxy servers.		(6 marks)	
c)	Explain the precautions that you take to protect data on networks against threats.		(8 marks)	
d)	List an	y <b>FOUR</b> password policies.	(4 marks)	
Qu	estion	Four		
a)	Distinguish between "permissions" and "rights" and state an example of each.			
<b>b</b> )	Discus	s issues addressed by network communication protocols.	(8 marks)	

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c)	Explain the use of the following network devices.  (i) Router	
	(ii) Switch	(4 marks)
d)	State characteristics of a strong password.	(2 marks)
e)	List advantages of using a DHCP server to set IP addresses	(2 marks)
Qι	estion Five	
a)	Discuss the role of a network administration.	(6 marks)
b)	State the functions of the following servers and the protocols used:  (i) File server  (ii) Web server  (iii) Mail server  (iv) DNS	(8 marks)
c)	Discuss reasons for wanting install network in an organization.	(4 marks)
d)	List any <b>TWO</b> media access protocols	(2 marks)