KENYA METHODIST UNIVERSITY End of Trimester I Examination, April 2008

Faculty	:	Science and Social Studies
Department	:	Computer and Information Sciences
Unit Code	:	CISY 357
Unit Title	:	Network Administration I
TIME	:	2 Hrs

Instructions: Answer <u>question one</u> and any other two questions from <u>section B</u>

SECTION A – Answer ALL question in this section

Question One (30 marks):

1)	Briefly outline the three main roles played by the network adapter card (NIC) in network		
	communication.	(3 marks)	
2)	Briefly describe the role of DHCP in network administration	(2 marks)	
3)	Distinguish between a static and dynamic IP address, and explain how each one is configured.		
		(5 marks)	
4)	Briefly describe the Gateway Services for Netware (GSNW) and outline its role in a	windows 2003	
	based network. What is the Client services for Netware?	(5 marks)	
5)	Briefly describe the Internet Information Services (IIS). How does IIS 6.0, used in windows serve		
	2003, differ from IIS 5.1?	(3 marks)	
6)	What is Internet Connection Sharing (ICS)?	(2 marks)	
7)	Briefly describe the following WINS server configuration options:		
	a) Renewal interval		
	b) Extinction interval.	(4 marks)	
8)	Briefly outline the role played by an IPSec monitor.	(2 marks)	
9)	Briefly describe the user password requirements for windows server 2003 domain	(4 marks)	

SECTION B – Answer ANY TWO questions in this section			
Question Two (20 marks):			
1) Briefly describe the following roles in network administration:			
a) Network manager			
b) Network technician	(4 marks)		
2) Windows server 2003 supports two licensing modes. Distinguish between these two modes			
	(2 marks)		
3) Write short notes on the following IPsec parameters:			
a) Mode of operation			
b) Security protocols	(5 marks)		
4) One of the key decisions to make before installing windows server 20	003 is the type of installation to		
make. Briefly describe the two options.	(4 marks)		
5) The following diagram shows the alternate configuration tab on the V	VINS server.		
a) When are the entries in this tab necessary/utilized?	(2 marks)		
b) Briefly describe the top three entries.	(3 marks)		
	1		

nternet Protocol (TCP/IP) Proper	ties ?				
General Alternate Configuration					
If this computer is used on more that settings below.	an one network, enter the alternate IP				
C Automatic private IP address					
User configured					
IP address:	10 . 0 . 0 . 9				
Subnet mask:	255 . 0 . 0 . 0				
Default gateway:	10 . 0 . 0 . 1				
Preferred DNS server:	10 . 0 . 0 . 1				
<u>A</u> lternate DNS server:					
Preferred <u>W</u> INS server:	10 . 0 . 0 . 7				
Alternate WI <u>N</u> S server:					
	OK Cancel				

Question Three (20 marks):

1)	Briefly describe how yo	u would create a new	user account in v	windows server 2	2003 (5 marks)
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- 2) State any three network services for windows clients (3 marks)
- 3) What do you understand by dual boot? (2 marks)

(2 marks)

4) What is Active Directory Service (AD)?

5) Briefly describe the following terms as used with active directory service;

	a) Forest			
	b) Transitive trust	(4 marks)		
6)	Briefly describe the four steps required in DHCP address assignment	(4 marks)		
Qu	estion Four (20 marks):			
1)	Distinguish between Basic NAT and PAT	(2 marks)		
2)	Give any two types of NAT	(2 marks)		
3)	he typical network administration workload is divided into three categories. State the three			
	categories	(3 marks)		
4)	State any two aspects involved in the change management process	(2 marks)		
5)	DHCP in windows server 2003 is made up of three basic components. State and briefly describe t			
	components	(6 marks)		
6)	A key enhancement to DHCP in windows server 2003 is the integration of DHCP w	ey enhancement to DHCP in windows server 2003 is the integration of DHCP with DNS;		
	a) What is the importance of this integration?	(2 marks)		
	o) Outline the three options for avoiding failed DNS lookups for DHCP-registered clients when			
	using static DNS service	(3 marks)		