



TECHNICAL UNIVERISTY OF MOMBASA

Faculty of Engineering & Technology

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

DIPLOMA IN INFORMATION COMMUNICATION TECHNOLOGY
(DICT 12M)

EIT 2207: NETWORK DESIGN & IMPLEMENTATION

SPECIAL/SUPPLEMENTARY EXAMINATION

SERIES: MARCH 2014

TIME: 2 HOURS

Instructions to Candidates:

You should have the following for this examination

- *Answer Booklet*

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)

You are the system administrator at Contosocorp. You have just received a new server and are required to install and configure windows 2008 R2 server HD6 x 300gb, ram 12GB.

- a) List the steps you will follow to proceed with a typical server setup. **(5 marks)**
- b) You are required to make the following configuration on the array controller – C: 100GB, D: 250GB, E: 225GB. What will you do to achieve this? **(5 marks)**
- c) What raid configuration will you consider to achieve the optimal results. Explain your answer. **5 marks)**
- d) The server will be a domain controller. Explain how the configuration is done using the unattended mode of installation. **(5 marks)**

Question Two

You are the systems administration of your company and need to be prepared for disaster recovery.

- a) What is the best way to safeguard your data? **(5 marks)**
- b) What is the main difference between network backup and local backup and how does it benefit you from using both. **(10 marks)**
- c) When choosing to backup files, list FIVE considerations to make before backup. **(5 marks)**

Question Three

You need to automate tasks at your company and need to use LOGIN script. Make a login script that will:

NB: All folders are in USERDATA folder. USE IFMEMBER.EXE

- a) Map user folders to user accounts and write the script:
 - GENERAL K:
 - USER H:
 - FINANCE S:
 - HR T:
 - MARKETING Y:
 - USER H:**(10 marks)**
- b) List the steps you will take to make the script from coding to implement until fully operational. **(10 marks)**

Question Four

- a) What is the main function of Active Directory in windows server machine **(4 marks)**
- b) There are two people with names “Jkaranja. How will you accommodate them in the AD? **(4 marks)**
- c) What role is installed by default during promotion of a server? **(2 marks)**

d) You need to automate IP distribution. What role will be required to do this (2 marks)

e) You need to subnet your network with unique IPS. How do you achieve these (8 marks)

Question Five

a) You are the Network Admin for a large company, some of your user, Jackie, recently returned from a 3-months maternity leave. While Jackie was on leave no one used her Windows 7PC. When Jackie attempted to log on to her PC. She received an error “NO LOGON SERVERS AVAILABLE TO SERVICE THIS REQUEST.” What are you required to do to solve this and make her work again. (5 marks)

b) You want to make sure that all of the client computers have the most current software installed for their operating system, including:

- Critical updates and service packs
- Driver updates

You want to automate the process as much as possible. You want the client computers to download the updates from the central serve that you are managing. You decide to use software update services. How is this achievable? (5 marks)

c) Windows AD contain both physical and logical components. Name TWO physical components of the AD. (4 marks)

d) A hierarchical structure made up of multiple domains that trust each other is called? (2 marks)

e) You have recently upgraded a Windows 2003 domain controller named NTDC to Windows 2008. This server is 5 years old and may fail. You install a new Windows 2008 server named AD1 and add it as domain controller in the domain. You now want to add another Windows 2008 sever named AD2 to replace NTDC. How should you add the new server removing the old server? (6 marks)