



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 **TWO** printed pages

Question One (Compulsory)

The following are roles on a windows 2008 server.

- a) Explain what is ADCS role? **(4 marks)**
- b) Explain what is AD DS role **(4 marks)**
- c) Explain what is ADFS role **(4 marks)**
- d) Explain what is NPAS **(4 marks)**
- e) Explain what is web server (ISS.7.0) role **(4 marks)**

Question Two

- a) Discuss how to install and configure the dynamic host configuration protocol on a windows 2008 server. **(10 marks)**
- b) Your client computers need the gateway IP to connect to the internet. How will you achieve this for a LAN of 1000 computers **(5 marks)**
- c) Your organization require IPS for mission critical equipment that cannot change over time. What will you do to achieve this. **(5 marks)**

Question Three

- a) List THREE commonly used RAID configurations used in Hardware RAID controllers. **(6 marks)**
- b) In a server comprising more than 3 SAS drives of 300GB each, what is the appropriate RAID configuration for dependability and availability. **(4 marks)**
- c) How is RAID 6 different from RAID 5. Explain briefly. **(5 marks)**

Question Four

- a) On an HP proliant server of DL family how is RAID configured? **(6 marks)**
- b) In a typical windows 2008 server. Suggest what steps will you take to install the Active Directory. **(10 marks)**
- c) If four of your staff in different departments need to print to the same printer installed in a common location, what will you do to achieve this? **(4 marks)**

Question Five

Matopeni Associates is a new company that need a network installed. You are the consultant hired to do the job.

- a) List the steps you would take to do the job. **(5 marks)**
- b) Explain briefly what each step will involve. **(10 marks)**

- c) How will you ensure that the design you will implement will serve the organization over a period of at least 5 years. **(5 marks)**