



THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE

(A Constituent College of JKUAT)

Faculty of Engineering & Technology

DEPARTMENT COMPUTER SCIENCE & INFORMATION TECHNOLOGY

DIPLOMA IN INFORMATION TECHNOLOGY (DIT 2K 10J)

ECT 2308: NETWORK MANAGEMENT

END OF SEMESTER EXAMINATIONS

SERIES: DECEMBER 2011

TIME: 2 HOURS

Instructions to Candidates:

You should have the following for this examination

- *Answer Booklet*

This paper consist of **FIVE** questions in **TWO** sections **A & B**

Answer question **ONE (COMPULSORY)** and any other **TWO** questions

Maximum marks for each part of a question are as shown

This paper consists of **THREE** printed pages

SECTION A (COMPULSORY)

Question one (30 marks)

- a) Briefly define the following terms:
 - i) Network management (2 marks)
 - ii) Windows Permissions (1 mark)
 - iii) Omit please (1mark)
 - iv) Active directory (1 mark)
- b) Describe **five** features of peer-to-peer network (5 marks)
- c) Explain the purposes of the following MS Windows Vista Versions
 - i) Home Premium (2 marks)
 - ii) Business (2 marks)
 - iii) Ultimate (2 marks)
- d) Describe **two** distinct features of each of the following Network Operating System
 - i) Windows NT 4 (2 marks)
 - ii) Windows 2000 Server (2 marks)
 - iii) Windows Server 2003 (2 marks)
- e) Explain the following components of user accounts
 - i) Home Directory (2 marks)
 - ii) Group Membership (2 marks)
 - iii) Account Status (2 marks)
 - iv) Account Restriction (2 marks)

SECTION B (ANSWER ANY TWO QUESTIONS)

Question two (15 marks)

- a) List **three** preconfigured built-in accounts (3 marks)
- b) Explain **one** characteristic of each of the built-in accounts listed in (a) (3 marks)
- c) Describe how the following user rights are important to the beneficiaries of network system
 - i) Changing system time (2 marks)
 - ii) Log on locally (2 marks)
 - iii) Restore files and directories (2 marks)
- d) Complete the following table of permissions (3 marks)

permission	abbreviation	description
Execute ?	The user can run the files
..... ?.	D	The user can delete the file
..... ?.	P	The user can change permission of file

Question three (15 marks)

- a) Define user profile in windows configuration (2 marks)
- b) List **three** advantages of New Technology File System (NTFS) over that of File Allocation Table (FAT) System (6 marks)
- c) (i) Distinguish between Network Operating System and Desktop Operating System (2 marks)
(ii) Explain the general features of network operating system (NOS) (5 marks)

Question three (15 marks)

- a) Explain the **five** steps to be taken in final preparation before installing Network Operating System e.g MS Windows Server (5 marks)
- b) Describe **six** basic decisions while installing a network operating System (6 marks)
- c) Distinguish between Automated and Remote installations. (4 marks)

Question four (15 marks)

Study the scenario below and answer the questions that follow

Milimani Furniture is a small company which deals in office, home and outdoor furniture. It has four staff members, the Director who is using a Dell Precision Laptop with Core 2 duo 2.0 GHZ processor,, 2GB RAM, 500GB Hard disk ,windows 7 Operating system, 1 Ethernet adaptor port and 1 wireless adaptor, he uses the laptop to read daily reports brought to him by the manager and accountant through a flash drive. The Director is the only one connected to the internet.

The manager his office adjacent to the director’s is using HP D500 desktop, with Pentium 4, 3.0 GHZ processor, 1 GB RAM, 160 GB Hard disk , Windows XP professional, 1 Ethernet adaptor port. The manager uses his computer for preparing documents and reports as well as receiving daily reports from the accountant and the Salesman through a CD or Flash drive.

The Accountant and the Salesman are using computers with the same specification as the one used by the manager. The accountant uses his computer for running accounting application and the salesman uses his computer to enter daily sales and to his system and then consults the accountant to balance the transactions. The director has resolved that:

- i) He want a new network printer
- ii) All the staff members should be able to access the internet
- iii) He should be able to access the files and reports from the accountant, manager and the salesman

Instructions

- a) Draw a table to illustrate how you are going to take stock for this network plan (6 marks)
- b) List the goals for the proposed network set up (3marks)
- c) Draw the possible network set up for this plan (6 marks)