A Constituent College of Kenyatta University

UNIVERSITY EXAMINATIONS 2010/2011 ACADEMIC YEAR

INSTITUTIONAL BASED PROGRAMME

1STYEAR EXAMINATIONS FOR THE DIPLOMA IN INFORMATION TECHNOLOGY.

COURSE CODE/ TITLE: SCT D110: OPERATING SYSTEMS 1.

END OF SESSION III   **DURATION: 2 HRS**

DAY/TIME: FRIDAY 4.00 -6.00PM   DATE: 9.12.2011(TF4)

INSTRUCTIONS

- **SECTION 1-(30 MARKS)** - Answer **ALL** questions in section 1
- **SECTION 2 –(40 MARKS)** – Choose **ANY TWO** questions
- Marks are indicated in brackets ( )

SECTION 1 – (30 MARKS)
Answer ALL the questions in this section

Question one
    Define the following terms:-

a) Operating system.
b) FAT
c) NTFS
d) Processing
e) Batch   (10 mks)

Question 2

Describe the functions of an operating system. (2 mks)

Question 3
Describe the term Kernel as used in Operating systems. (3 mks)

Question 4
Describe five operating systems available in the market today (5 mks)

Question 5
Describe the characteristics of a good operating system (4 mks)

Question 6
Differentiate between AUTOEXEC.BAT and CONFIG.SYS (2 mks)

Question 7
What is the importance of command prompt inoperating system design and development

(2 mks)

Question 8
List down at least four critical command prompts that would help you understand the structure of a local directory in a windows based PC. (2 mks)

SECTION 2 – (40 MARKS)
Choose ANY TWO questions

Question 1

The Principal of Pwani University College would like to computerize their operations. A Systems Administrator is required to commend the various types of components and systems to be implemented.

a) Outline the various operating systems and their suitability in a college scenario (5 mks)

b) Briefly describe the activities and type of report the systems Administrator will undertake and prepare a technical design of the operating systems to be used.

(10 mks)

c) Describe a Network Operating system and it importance in managing the college ICT infrastructure. (5 mks)

Question 2

Safaricom Limited would like to open a branch at KilifiTown to promote their new product MPESA. They have approached you to setup an information system to suit their operations. With your basic understanding of operating systems.

a) Why would you recommend them do anoperating systems survey before starting their operations. (5 mks)

b) Briefly outline the steps you will take to understand the business operations of Safaricom MPESA service. (7 mks)

c) What are some of the factors that may affect the security system project. (8 mks)

Question 3

AfriTech Kenya limited Company would like to shortlist candidates for a systems Administrator position. This is position reporting to the IT Manager and attracts a good remuneration/salary.

a) Discuss why you are the best candidate for the job. (6 mks)

b) Assuming that you are hired for the job. Prepare an orientation report highlighting some of the expertise you would bring into the company in regards to operating systems. (6 mks)

c) Highlight the challenges you anticipate you face and how you would handle them. (6 mks)