

KENYA METHODIST UNIVERSITY
END OF TRIMESTER EXAMINATION, APRIL 2007

FAULTY : SCIENCE
DEPARTMENT: MATHEMATICS AND COMPUTER SCIENCE
COURSE CODE: COMP 101/100
COURSE NAME: INTRODUCTION TO COMPUTER SCIENCE AND COMPUTER APPLICATION
TIME : 3 HOURS

INSTRUCTIONS

- Question one is compulsory, and answer two other questions.

QUESTION ONE (30 marks)

1. What is a System and explain three parts that make up a Computer System (4Mks)
2. Give the five methods of classifying computers (5Mks)
3. In the computer architecture, what are the major elements of a Computer set (4Mks)
4. Define the following terms:
 - a) CMOS Memory
 - b) Word Size
 - c) Cache (3Mks)
5. Explain the two classification of printers by how the transfer characters from printer to the paper (4Mks)
6. Describe the four character representation codes most widely used (4Mks)
8. Convert the following:
 - a) 23_{10} to $base_2$
 - b) 110101_2 to $base_{10}$ (4Mks)
9. Convert these ASCII codes 0011001 under an even parity protocol to an even parity and 1010110101 under an odd parity protocol to an odd parity (2Mks)

QUESTION TWO (20 Marks)

1. Define the term MS DOS (1Mk)
2. Briefly explain at least five internal DOS Commands used (5Mks)
3. Give at least four rules associated with file names (4Mks)
4. What is a Wildcards, and with examples give, give two wildcards MS DOS recognizes(3Mks)

5. Write a Batch file command under the filename FIRST that will do the following commands:
 - i. Clear the screen
 - ii. Display your Windows version
 - iii. Display your computer's memory information
 - iv. Show current time (5Mks)
6. What are the difference between MS DOS and Windows (2Mks)

QUESTION THREE (20 Marks)

1. In all Window versions, what are the importance of Window Explorer (2Mks)
2. On clicking the Start button, briefly explain at least eight commands that pop up (8Mks)
3. Explain the two procedures of creating a folder (2Mks)
4. Briefly explain at least eight accessories that Windows provide (8Mks)

QUESTION FOUR (20Mks)

1. What are the five characteristics of a good Spreadsheet software (5Mks)
2. Define the following features found in Spreadsheets:
 - a) Sheet tab
 - b) Formula bar
 - c) Name box (3Mks)
3. With examples, what is the difference between Relative Reference and Absolute Reference (2Mks)
4. What syntax/format does the IF statement take in Spreadsheets and explain each part (4Mks)
5. Using diagrams, explain the 3 network topology (6Mks)

QUESTION FIVE (20 Marks)

1. Discuss computer generation with stages in their evolution of; circuitry, hardware, software and Programming language (10Mks)
2. Explain the main two parts of a CPU (4Mks)
3. Describe at least six output devices (6Mks)