



MAASAI MARA UNIVERSITY

**REGULAR UNIVERSITY EXAMINATIONS
2017/2018 ACADEMIC YEAR
THIRD YEAR FIRST SEMESTER EXAMINATIONS**

**SCHOOL OF SCIENCE AND INFORMATION SCIENCES
UNIVERSITY EXAMINATIONS FOR THE DEGREE OF
BACHELOR OF COMPUTER SCIENCE**

COURSE CODE: COM 211

COURSE TITLE: SYSTEM SOFTWARE

DATE: 23RD APRIL 2018

TIME: 8:30AM-10:30AM

INSTRUCTIONS

Answer Question ONE and any other TWO

This paper consists of 2 printed pages. Please turn over.

QUESTION ONE

- a. Discuss three common services provided by UNIX **[6 Marks]**
- b. Discuss the following terms as used in system software
 - i. Fatal error **[4 Marks]**
 - ii. Interactivity **[4 Marks]**
 - iii. Spooling **[4 Marks]**
- c. Discuss four laws for E-Type software evolution **[4 Marks]**
- d. Discuss the differences between Assembly language and machine language **[4 Marks]**
- e. Discuss Software Paradigms **[4 Marks]**

QUESTION TWO

- a. Discuss the role of the BIOS in the computer boot process **[6 Marks]**
- b. Discuss the role of system kernel **[4 Marks]**
- c. Discuss the differences between a process and a program **[4 Marks]**

QUESTION THREE

- a. Discuss three parts of system processes **[6 Marks]**
- b. Discuss the differences between Assemblers, compilers, linkers and loaders. **[8 Marks]**
- c. Discuss S, P and E-type kinds of softwares as per Lehman laws
- d. Software Development Paradigm **[6 Marks]**

QUESTION FOUR

- a. Discuss the OS processes life cycle **[8 marks]**
- b. Discuss six contents of the Process Control Block **[6 Marks]**
- c. Discuss the differences between software development and Software evolution **[4 Marks]**
- d. Discuss Characteristics of good software **[2 Marks]**

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