



W1-2-60-1-6
**JOMO KENYATTA UNIVERSITY
OF
AGRICULTURE AND TECHNOLOGY**

UNIVERSITY EXAMINATIONS 2016/2017

**FIRST YEAR FIRST SEMESTER EXAMINATIONS FOR BACHELOR DEGREE
IN ACTUARIAL SCIENCES/ BACHELOR DEGREE IN STATISTICS**

STA 2102: INTRODUCTION TO INFORMATION TECHNOLOGY FOR STATISTICS

DATE: DECEMBER 2016

TIME: 2 HOURS

INSTRUCTIONS:

1. Answer question ONE (section A) and any other two questions in section B.
2. All questions except question one carry equal marks

SECTION A (30 MARKS)

- a) State and explain any three functions of computer network. (6 marks)
- b) Discuss the term System software. (3 marks)
- c) All signals are originally analog. Outline the digitization process. (4 marks)
- d) State and explain any three classes of operating systems functionally. (6 marks)
- e. Discuss the following
i) Byte. (3 marks)
ii) Network Administrator. (3 marks)
- f. Discuss the following:
i) super computer. (3 marks)
ii) Pie chart. (3 marks)
- g. Discuss the difference between WAN and Internet. (5 marks)

SECTION B (20 MARKS EACH)

QUESTION TWO

- a) Discuss the term operating System and explain its functions. (6 marks)
- b) Discuss the following terms
i) System management Programs. (3 marks)
ii) Utility software. (3 Marks)

- c) Discuss the term sequential files and explaining the advantage and disadvantage. (4 marks) ✓
- d) Discuss the type of memory and functions of ROM. (4 marks)

QUESTION THREE

- a)
- (i) Supercomputer and mainframe are the fastest computers with very powerful and very fast processors currently available. State the difference between the two machines (4 Marks) ✓
- (ii) Discuss the characteristics of digital signals. (5 marks) ✓
- b) Discuss the basic central processing unit registers. (5 Marks) ✓
- c) Discuss the following terms.
- i. Backup utility. (3 marks) ✓
- ii. Non-determinacy. (3 marks) ✓

QUESTION FOUR

- a) The World Wide Web (abbreviated as WWW or W3 commonly known as the Web), is a system of interlinked hypertext documents accessed via the Internet. Discuss the three main components. (6 Marks) ✓
- b) Outline the difference between spreadsheet and word processor (4 Marks) ✓
- c) Explain any five keyboard shortcuts of a Microsoft word processor. (5 Marks) ✓
- d) Discuss any three types of computer networks. (5 marks) ✓

THE END