



# **KISII UNIVERSITY**

## **UNIVERSITY EXAMINATIONS**

### **SPECIAL EXAMINATION**

#### **FIRST YEAR EXAMINATION FOR THE AWARD OF DEGREE IN BACHELOR OF SCIENCE ACTUARIAL SCIENCE**

#### **FIRST SEMESTER 2021/2022**

**(JULY, 2022)**

#### **BBAM 172: FUNDAMENTALS OF COMPUTER SYSTEMS**

**STREAM: Y1 S1**

**TIME: 2 HOURS**

**DAY: FRIDAY, 8.00 AM – 10.00 AM**

**DATE: 29/07/2022**

#### **INSTRUCTIONS:**

- 1. Do not write anything on this question paper.**
- 2. Answer Question ONE (Compulsory) and any other TWO Questions.**

#### **QUESTION ONE (30 marks)**

- a) Distinguish between
  - i. Computer hardware and software (2 Marks)
  - ii. Primary and secondary storage (2 Marks)
- b) Summarize the generations of computers (5 Marks)
- c) Differentiate between hard copy and soft copy output (2 Marks)
- d) What is open-source software? Give an example (3 Marks)
- e) Explain briefly the following terms
  - i. Operating system (2 Marks)
  - ii. Booting (2 Marks)
- f) Describe any three output devices in a computer system (6 Marks)

- g) Write short notes on a flash disk (4 Marks)
- h) What is a computer virus? (2 Marks)

**QUESTION TWO (20 MARKS)**

- a) Explain the following terminologies
  - i. Word processor (2 Marks)
  - ii. Database Management systems (2 Marks)
- b) Explain two differences between RAM and ROM (4 Marks)
- c) Explain any three characteristics of computers (6 Marks)
- d) Describe the three main parts of a CPU (6 Marks)

**QUESTION THREE (20 MARKS)**

- a) Explain five classifications of computers by size and power (5 Marks)
- b) Describe five major operations or functions of a computer irrespective of its size and make (5 Marks)
- c) Write short notes on
  - i. System software (5 Marks)
  - ii. Application software (5 Marks)

**QUESTION FOUR (20MARKS)**

- a) Define a web browser (1 Mark)
- b) Identify five features of a web browser (5 Marks)
- c) Explain the two types of commonly-used printers (4 Marks)
- d) Explain two ways to avoid viruses (4 Marks)
- e) Describe any three input devices (6 Marks)

**QUESTION FIVE (20MARKS)**

- a) What is a spreadsheet? (2 Marks)
- b) Describe the mail merge process in Microsoft word (6 Marks)
- c) Describe, using a well labeled diagram, a computer system. (6 Marks)
- d) Discuss the three main types of viruses (6 Marks)