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**KIRIRI WOMENS' UNIVERSITY OF SCIENCE AND TECHNOLOGY
UNIVERSITY EXAMINATIONS, 2020/2021 ACADEMIC YEAR
FIRST YEAR, FIRST SEMESTER EXAMINATIONS
FOR THE DEGREE OF BACHELOR OF SCIENCE
(COMPUTER SCIENCE)**

KCS 100 - FUNDAMENTALS OF COMPUTING

Date: 15th December, 2020

Time: 2.30pm – 4.30pm

INSTRUCTIONS TO CANDIDATES

ANSWER QUESTION ONE (COMPULSORY) AND ANY OTHER TWO QUESTIONS

QUESTION ONE (30 MARKS)

- a) Explain any two roles that are being played by arithmetic/logic unit(ALU) of a computer. (4 Marks)
- b) State two types of printers and explain their differences (4 Marks)
- c) Name and differentiate between the two types of monitors (4 Marks)
- d) Perform the following conversions;
- i) 65₈ into Decimal (4 Marks)
- ii) 1010111011₂ into Hexadecimal (4 Marks)
- e) Briefly explain the functionalities of computers (5 Marks)
- f) Explain the functions played by Central Processing Unit (CPU)/Processor. (5 Marks)

QUESTION TWO (20 MARKS)

- a) Explain five application fields of computer systems (10 Marks)
- b) Describe five forms of computer application software (10 Marks)

QUESTION THREE (20 MARKS)

- a) Computers have evolved through many generations over the years in the society. State and explain the five generations the computers have evolved through. (10 Marks)
- b) Generate the reasons to justify why computers need secondary storage. (10 Marks)

QUESTION FOUR (20 MARKS)

- a) You have been asked by your company manager to assist them to purchase some computers. Explain what five factors you would consider when purchasing them (10 Marks)
- b) State and explain four classifications of computers based on their capacity, prize and size (10 Marks)

QUESTION FIVE (20 MARKS)

- a) Briefly discuss the services performed by computer operating systems. (10 Marks)
- b) Explain the advantages and disadvantages of computers. (10 Marks)