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KIRIRI WOMEN'S UNIVERSITY OF SCIENCE AND TECHNOLOGY
UNIVERSITY EXAMINATIONS, 2019/2020 ACADEMIC YEAR
FIRST YEAR, FIRST SEMESTER EXAMINATIONS
FOR THE DEGREE OF BACHELOR OF SCIENCE
(COMPUTER SCIENCE)

Date: 9th April, 2019
Time: 2.30pm – 4.30pm

KCS 100 – FUNDAMENTALS OF COMPUTING

INSTRUCTIONS TO CANDIDATES

ANSWER QUESTION ONE (COMPULSORY) AND ANY OTHER TWO QUESTIONS

QUESTION ONE (30 MARKS)

- a) Distinguish Emissive Displays from Non-Emissive Displays flat-panel displays (4 marks)
- b) Compare and contrast between main memory and secondary storage (5 marks)
- c) Why is the motherboard considered as the backbone of a computer? Highlight the features of the computer motherboard (5 marks)
- d) Perform the following computations:
 - i) Convert 724_8 into a Decimal Number (4 marks)
 - ii) Convert 1010111011_2 into hexadecimal number (4 marks)
- e) Explain the applications of micro-computers in engineering field (8 marks)

QUESTION THREE (20 MARKS)

- a) Discuss the classification of computers according to speed and computing power. (10 marks)
- b) Describe the functions of the control unit of the CPU (10 marks)

QUESTION FOUR (20 MARKS)

- a) All types of computers follow the same basic logical structure. Explain the basic operations of the computer (10 marks)
- b) Describe the relationship between computer Hardware and Software. (10 marks)

QUESTION FIVE (20 MARKS)

- a) Discuss any five functions of the computer operating system. (10 marks)
- b) Explain the examples of application software and their functions. (10 marks)