



Kasarani Campus
Off Thika Road
Tel. 2042692 / 3
P. O. Box 49274, 00100
NAIROBI
Westlands Campus
Pamstech House
Woodvale Grove
Tel. 4442212
Fax: 4444175

KIRIRI WOMEN'S UNIVERSITY OF SCIENCE AND TECHNOLOGY
UNIVERSITY EXAMINATION, 2023/2024 ACADEMIC YEAR
SECOND YEAR, FIRST/SECOND SEMESTER EXAMINATION
FOR THE BACHELOR OF BUSINESS INFORMATION TECHNOLOGY
KBI 2210 – USER INTERFACE DESIGN AND PROGRAMMING

Date: 17TH APRIL 2023
Time: 11:30AM – 1:30PM

INSTRUCTIONS TO CANDIDATES

ANSWER QUESTION ONE (COMPULSORY) AND ANY OTHER TWO QUESTIONS

QUESTION ONE (30 MARKS)

- a) Define the following terms;
 - i) Interface (3 Marks)
 - ii) Effectiveness (3 Marks)
 - iii) Finite (4 Marks)
 - iv) User (4 Marks)
 - v) Efficiency (4 Marks)
- b) List 4 goals of human computer interface that designers must adhere to. (4 Marks)
- c) List 4 characteristics of a usable system. (4 Marks)
- d) System control and security for a computer based project has resources like hardware, software data procedures. Security refers to protecting these elements from accessing in a wrong way i.e. unauthorized way. List five reasons why an interface designer should implement system security and controls. (4 Marks)

QUESTION TWO (20 MARKS)

- a) Describe the Norman's execution evaluation model in relation to user interface. (10 Marks)
- b) Discuss 5 ergonomics factors that a designer should consider when designing a system. (10 Marks)

QUESTION THREE (20 MARKS)

- a) You are the Information technology manager at Coca Cola Limited. Using 5 examples discuss how the products offered are easy to use and meet the customer's needs. (10 Marks)
- b) Describe 5 characteristics of a good user interface (10 Marks)

QUESTION FOUR (20 MARKS)

- a) Mutiso is a user interface designer at equity bank. Discuss 5 factors that he should consider when designing the bank's website and ATM system. (10 Marks)
- b) Describe the 3 views that humans use to solve problems (10 Marks)

QUESTION FIVE (20 MARKS)

- a) Describe 5 interaction styles in relation to use interface (5 Marks)
- b) Define prototyping and explain three benefits of prototyping. (5 Marks)
- c) With an aid of a well labeled diagram explain phased development model, stating two advantages and disadvantages of phased development model. (10 Marks)