



THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE

(A Constituent College of JKUAT)

(A Centre of Excellence)

Faculty of Engineering & Technology

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

UNIVERSITY EXAMINATION FOR DEGREE IN BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY (BSC. IT)

BIT 2305: HUMAN COMPUTER INTERFACE

SPECIAL/SUPPLEMENTARY EXAMINATION
SERIES: OCTOBER 2012
TIME: 2 HOURS

Instructions to Candidates:

You should have the following for this examination

- Answer Booklet

This paper consist of **FIVE** questions Answer question **ONE** and any other **TWO** questions Maximum marks for each part of a question are as shown This paper consists of **TWO** printed pages

SECTION A (COMPULSORY)

Question One (30 marks)

a)	Explain the usability attributes.	(5 marks)
b)	How should one design user interface for multimedia?	(3 marks)
c)	Explain the importance of groupware.	(2 marks)
d)	Explain the term usability.	(2 marks)
e)	Fill in the time/space matrix.	(4 marks)

 f) Outline the quality components of usability according to Jakob Nielsen (2003) g) State the Human Computer Interface design guidelines. h) Outline the Donald Norman's model. i) Outline the uses of animation. 	(5 marks) (3 marks) (3 marks) (3 marks)		
SECTION B (Answer Any Two Questions)			
Question Two (20 marks)			
a) Draw a flow chart to illustrate user interface design process.b) Describe the user interface design principles.c) Discuss the interaction styles.	(5 marks) (5 marks) (10 marks)		
Question Three (20 marks)			
 a) Discuss the computer-mediated communication. b) Explain the term usability Engineering. c) Draw the usability Engineering Lifecycle and explain the various sections. 	(10 marks) (3 marks) (7 marks)		
Question Four (20 marks)			
 a) Discuss the spiral process of user interface development process. b) Discuss the Golden rules of user interface design. c) Explain the FOUR different models that come into play when a user interface is ana designed. 	(8 marks) (8 marks) lyzed and (4 marks)		
Question Five (20 marks)			
a) Explain the term user centered design.b) Outline the advantages and disadvantages of participatory design.c) Discuss the approaches to user support.	(4 marks) (6 marks) (10 marks)		