



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 TECHNOLOGY IN INFORMATION COMMUNICATION TECHNOLOGY (BTIT. ICT)

EIT 4307: HUMAN COMPUTER INTERACTION

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)	Outline the challenges of speech recognition.	(5 marks)
b)	Describe the different user characteristics.	(4 marks)
c)	Outline the interaction styles.	(4 marks)
d)	Outline the text entry devices.	(3 marks)
e)	Define the term Human-Computer Interaction.	(2 marks)
f)	State the overall goals of Human Computer Interaction.	(3 marks)
g)	State the FIVE quality components of usability.	(5 marks)
h)	Explain the term, system development methodology.	(2 marks)
i)	Explain the phrase 'Bad Interface'	(2 marks)

SECTION B (Answer Any Two Questions)

Question Two (20 marks)

a) Discuss the Requirements Analysis for a Human Computer Interacting System.	(10 marks)		
b) Discuss the Donald Norman's Model of the seven stages of system development.	(10 marks)		
Question Three (20 marks)			
a) Draw the HCL development methodology and describe the parts of the drawing you have done			
b) Explain the common measurable goals for usability.	(10 marks) (5 marks)		
c) Explain what constitutes a good interface.	(5 marks)		
Question Four (20 marks)			
a) Discuss the categories of user characteristics.	(10 marks)		
b) Explain the EIGHT Golden rules for interactive interface design.	(10 marks)		
Question Five (20 marks)			

Discuss the advantages and disadvantages of using speech user interface for a banking system.

(20 marks)