University of Eswatini Department Of Computer Science Main Examination December 2018

Title of paper

: Human Computer Interaction

Course number

: CSC251

Time Allowed

: Three (3) hours

Instructions:

• Each question carries 25 marks.

• Answer any four (4) questions.

This paper may not be opened until permission has been granted by the invigilator.

QUESTION 1

b)	 Describe a formal definition of HCI. How do you think new, fast, high-density memory devices and quick process have influenced recent developments in HCI? Do they make systems any eas use? Do they expand the range of applications of computer systems? Explain the following terms. GOMS Norman's Seven Principles 	[5] sors ier to [10] [10]
QUESTION 2		
	Describe the goals of HCI. Describe Fitts' law. How does Fitts' law change for different physical selection devices, such as a three-button mouse, a touchpad, or a pen/stylus? Discuss the History and Evolution of HCI.	[8] on [7] [10]
QUES	STION 3	
a) b)	Briefly describe the human information processing model. Explain Interdisciplinary nature of HCI and the relationship of Usability and quality.	[10] [15]
QUESTION 4		
D)	Explain how cognitive psychology influences HCI. Describe the advantages and disadvantages of different input output devices keeping in view different aspects of HCI. What new paradigms do you think may be significant in the future of interaction computing?	[8] [10] ve [7]
QUESTION 5		
c)	Write the Shneiderman's Eight Golden Rules of Interface Design. What are the factors governing the choice of an appropriate evaluation method different interactive systems? Give brief details. Compare the benefits to users of the WIMP interaction style with that of a command line interface.	[7] for [10]