

MASENO UNIVERSITY UNIVERSITY EXAMINATIONS 2021/2022

THIRD/SECOND YEAR SECOND SEMESTER EXAMINATIONS FOR THE DEGREE OF BACHELOR OF SCIENCE IN INFORMATION SYSTEMS

MAIN CAMPUS

CIS 210: HUMAN COMPUTER INTERACTION

CIT 302: HUMAN COMPUTER INTERACTION

Date: 25th October, 2021

Time: 8.30 - 11.30am

INSTRUCTIONS:

- DO NOT write anywhere on this question paper
- · Answer question ONE and any other TWO questions
- Start a new page

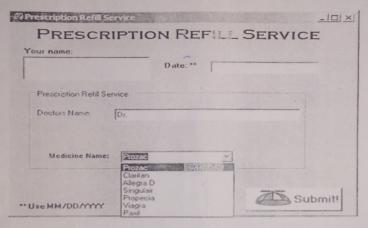
Question 1 (Compulsory 30 marks)

(6 marks)

- (a) Define the following concepts
 - (i) Interface usability
 - (ii) Muller Lyer illusion.
 - (iii) Proactive inhibition
- (b) Demonstrate three ways in which psychology informs HCI decisions.

(3 marks)

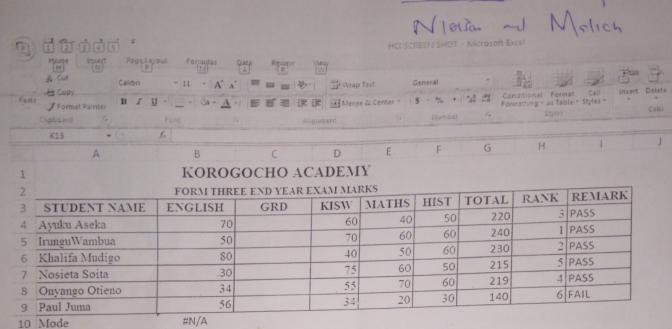
- (c) State three characteristics of the long-term memory that could have implications on HCI. (3 marks)
- (d) The sense of hearing is considered secondary to visual perception. Explain 4 ways in which haptic sensory can be applied in HCI. (4 marks)
- (e) Consider the screen design below. Identify four design aspects that do not conform to form interface style design guidelines. (4 marks)



- (f) State and explain four shortcomings of metaphorical design as an interface design strategy. (4 marks)
- (g) Briefly explain why there is growing interest in HCl as a field of study and practice. (6 marks)

question 2 (20 marks)

The figure below is a screenshot of the new look Ms Excel 2007 workbook. Using the screen shot and understanding of other Ms Office 2007 products, conduct a heuristic evaluation on the same. (20 marks)

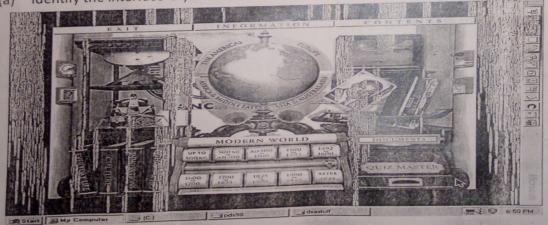


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Question 3 (20 marks)

(a) Identify the interface style below and state the advantages of such a style

(6 marks)



- (b) There is wide spread use of icons in user interfaces today. State and explain the reasons behind this phenomenon. (5 marks)
- (c) Discuss the workings of the short-term memory and explain its HCI design implications (4 marks)
- (d) Give three reasons why there was need for separation between the presentation and Application semantics in user interface management systems. (4 marks)