



NATIONAL OPEN UNIVERSITY OF NIGERIA
91 CADASTRAL ZONE NNAMDI AZIKWE EXPRESSWAY JABI, ABUJA
FACULTY OF SCIENCE

Time: 3 Hours

Course Code: CIT 811
Course Title: USER INTERFACE DESIGN AND ERGONOMICS
Course Credit Unit: 3
Instruction: Attempt any FIVE (5) questions in all. Each question awards 14 marks

QUESTIONS

- 1a. Define User- Centered design (UCD)
(2marks)
- 1b. Describe the UCD model
(2marks)
- 1c. Interactive design attempts to improve the usability and experience of a product, explain the following interactive design methodologies.
(10marks)
- i. Design Research
 - ii. Research analysis
 - iii. Alternative design and evaluation
 - iv. Prototyping and usability testing
 - v. Implementation
- 2a. Describe the term “Ergonomics”? (5 marks)
- 2b. list and explain Five (5) facets ergonomics
(5 marks)
- 2c. Mention three benefits of Ergonomics (3 marks)
- 2d. what does the acronym ZUI depicts
(1mark)
- 3a. Outline two (4) facts about colour
(4marks)
- 3b. Explain menu selection and list three merits. (6 marks)

3c. mention 2 demerits of menu selection.
(4marks)

4a. Using automobile as illustration, discuss the significance of user interface
(8marks)

4b. Explain the two (2) major types of user interface
(4marks)

4c. Define the term 'mode' within the context of user interface
(2marks)

5a. List and briefly describe six (6) principles for designing good user interface
(12marks)

5b. In history, user interface can be divided into three phases, mention the first and second dominant type.
(2marks)

6a. Discuss the term HCI and its goals towards user interface design
(7 marks)

6b. Explain task analysis
(7marks)

7a. Outline any five (5) Nielsen and Molich's Heuristics
(10marks)

7b. Describe the term 'Heuristics' (4 marks)