



NATIONAL OPEN UNIVERSITY OF NIGERIA
PLOT 91, CADASTRAL ZONE, NNAMDI AZIKIWE EXPRESSWAY, JABI-ABUJA
FACULTY OF COMPUTING
DEPARTMENT OF COMPUTER SCIENCE
2025_2 EXAMINATIONS

COURSE CODE: CIT 811

COURSE CREDIT: 3

COURSE TITLE: USER INTERFACE DESIGN AND ERGONOMICS

TIME ALLOWED: 3 HOURS

INSTRUCTION: ANSWER QUESTION ONE AND ANY OTHER THREE (3) QUESTIONS

QUESTION 1

1(a) **Expound** on the different ways ergonomics is used to attain efficiency within the context of user interface design **(6 marks)**

1(b) Distinguish between Usability Testing and Usability Engineering **(4 marks)**

1(c) Write down any six types of user interfaces **(6 marks)**

1d. Elucidate on any three (3) aspects of Ergonomics **(9 marks)**

[Total = 25 marks]

Question 2

2a. Analyse the concept of Storyboards within the context of user interface design and ergonomics.

(3 marks)

2b. Highlight ten (10) aspects to be considered for good user interface design. **(10 marks)**

2c. State any 2 objectives of HCI **(2 marks)**

[Total = 15 marks]

Question 3

3a. Write down any SIX (6) types of user interfaces **(3 marks)**

3b. Identify and describe the 4 stages involved in user interface designs **(12 marks)**

[Total = 15 marks]

Question 4

4a. Explain the notion of graphical user interfaces? **(3 marks)**

4b. Describe four ways ergonomics is used to achieve efficiency in interface design **(4 marks)**

4c. Identify and expound on the 4 major considerations of user centered design **(8 marks)**

[Total = 15 marks]

Question 5

5a. Describe the goal of Seating Ergonomics and Macro ergonomics in User Interface design **(6 marks)**

5b. Outline any four principles of Graphic design **(4 marks)**

5c. Differentiate between Structural and Interaction elements in GUI design **(5 marks)**

[Total = 15 marks]

QUESTION 6

6a. Outline any six (6) guidelines of usability to be adhered to during user interface design **(6 marks)**

6b. Name and elucidate on any 3 examples of cognitive models **(9 marks)**

[Total = 15 marks]