



**NATIONAL OPEN UNIVERSITY OF NIGERIA,  
PLOT 91, CADASTRAL ZONE, UNIVERSITY VILLAGE, JABI – ABUJA  
FACULTY OF SCIENCES  
DEPARTMENT OF COMPUTER SCIENCE  
2022\_1 EXAMINATION.**

**COURSE CODE: CIT811**

**COURSE CREDIT: 3**

**COURSE TITLE: USER INTERFACE DESIGN AND ERGONOMICS**

**TIME ALLOWED: 3 HOURS**

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

- 1a. Identify the five (5) main concepts of usability and their corresponding questions **(10 marks)**
- 1b. i. Elucidate on the concept of prototyping within the context of User Interface Design and Ergonomics. **(2 marks)**
- ii. Outline any 4 techniques for high quality prototyping **(4 marks)**
- 1c. Outline and describe the three elements of Rhetoric situations in User Centered Design **(9 marks)**

**[Total = 25 marks]**

- 2a. Describe the goal of Seating Ergonomics and Macro ergonomics in User Interface design **(4marks)**
- 2b. Write down the basic goal of HCI **(2 marks)**
- 2c. Outline any four principles of Graphic design **(4 marks)**
- 2d. State five (5) **aspects of the loop interaction** **(5 marks)**

**[Total = 15 marks]**

- 3a. Outline any six (6) guidelines of usability to be adhered to during user interface design **(6 marks)**
- 3b. Name and elucidate on any 3 examples of cognitive models **(9 marks)**

**[Total = 15 marks]**

- 4a. Expound on the concept of Storyboards within the context of interface design. **(3 marks)**
- 4b. Outline and explain any 4 aspects of ergonomics **(8 marks)**
- 4c. State any 4 objectives of HCI **(4 marks)**

**[Total = 15 marks]**

5a. Enumerate any 6 types of user interfaces **(3 marks)**

5b. Identify and describe the 4 stages involved in user interface designs **(8 marks)**

5c. How is interaction design related to user interface design? **(4 marks)**

**[Total = 15 marks]**

6a. Elucidate on the notion of graphical user interfaces? **(3 marks)**

6b. Describe four ways ergonomics is used to achieve efficiency in interface design **(4 marks)**

6c. Name and expound on the 4 major considerations of user centered design **(8 marks)**

**[Total = 15 marks]**