



NATIONAL OPEN UNIVERSITY OF NIGERIA,
PLOT 91, CADASTRAL ZONE, UNIVERSITY VILLAGE, JABI – ABUJA

FACULTY OF SCIENCES

DEPARTMENT OF COMPUTER SCIENCE

2023_1 POP EXAMINATION

COURSE CODE: CIT811

COURSE CREDIT: 3

COURSE TITLE: USER INTERFACE DESIGN AND ERGONOMICS

TIME ALLOWED: 2¹/₂ HOURS

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

QUESTIONS

1a. You have just been invited to serve as a Panelist in a workshop on Human Computer Interaction. After the opening remarks and the keynote address, the Moderator invites you to give a discourse on the “UCD” and its goals within the context of the User Interface Design and Ergonomics. Present your discourse on UCD and its goals.

(17 marks)

1b. Enumerate any 3 forms of efficiency in Ergonomics

(3 marks)

1c. State the fundamental goal of Human Computer Interaction

(2marks)

1d. Identify and comment on the three pillars to an application’s success.

(3 marks)

[Total = 25 marks]

2. Name and expound on any 5 principles for designing a good user interface.

[Total = 15 marks]

3a. Elucidate extensively on the concept of “Ergonomics”

(5 marks)

3b. Identify and describe five (5) facets of ergonomics

(10 marks)

4a. Designers often employ interaction design methodologies in finding solutions. Enumerate and explain any 5 stages of Interaction design.

(10 marks)

4b. Write down the 5 major merits of Menu Selection

(5 marks)

[Total = 15 marks]

5a. Discuss the concept of **Heuristics** from the perspective of the User Interface Design and Ergonomics.

(5 marks)

5b. Name and describe any 5 Heuristics of Nielsen and Molich

(10 marks)

6a. Typically, in the field of User Interface Design and Ergonomics, the User Centered Design is focused around the rhetorical situation

i. State the main role of the rhetorical situation

(2 marks)

ii. Identify and describe the three (3) elements to consider in a rhetorical situation

(6 marks)

6b. Discuss the statement: “Imminent computing shapes Human Computer Interaction”. (7 marks)