



NATIONAL OPEN UNIVERSITY OF NIGERIA
University Village, 91 Cadastral Zone, Nnamdi Azikwe Expressway, Jabi, Abuja
FACULTY OF SCIENCES
2023_1 EXAMINATIONS.

COURSE CODE: CIT353

COURSE TITLE: Human Computer Interaction

CREDIT: 2 Units

TIME ALLOWED: 2 Hours

INSTRUCTION: Answer Question ONE (1) and any other TWO (2) Questions

1a) Briefly describe the following effects:

- i) Hypertext (4 marks)
- ii) Hypermedia (4 marks)
- iii) Animation (4 marks)

b) State the management issues concerned with:

- i) Interactive design (4 marks)
- ii) prototyping techniques (4 marks)

c) State and explain the four (4) tasks of the software process of Human Computer Interaction. (6 marks)

d) How many stages are involved in the *Donald Normans model* ? State them. (4 marks)

Total = 30 marks

2a) (i) Describe "the Waterfall model" in the software design process of human computer interaction? (7 marks)

(ii) Draw a well-labelled diagram of the Waterfall model (5 marks)

b) State and briefly explain the activities involved in the Software lifecycle (8 marks)

Total = 20 marks

3a) Explain the term 'Ergonomics'. Give any two examples. (6 marks)

b) Compare Participatory design and Ethnography design in Human Computer Interaction (3 marks)

c) State the characteristics of Participatory design. (2 marks)

d) State the ethics and methods involved in Participatory design (6 marks)

e) Differentiate between the objectives of interactive design and prototyping. (3 marks)

Total = 20 marks

4a) Extensively discuss video and audio effects in human computer interaction (8 marks)

- b) Give two (2) advantage and one (1) challenge arising from the application of video and audio effects in web browsing and hypertext **(5 marks)**
- c) Give two methods by which universal design can be realized? Give an example of each method. **(4 marks)**
- d) What is the function of the Boolean search used in conducting web search **(3 mark)**

Total = 20 marks

- 5a) (i) State the various knowledge required to build an adaptive help system. **(6 marks)**
- (ii) Which of the knowledge in (i) above is easiest to provide? Where can the knowledge be got? What is its disadvantage? **(5 marks)**
- b) Which of the knowledge in (a) above is most difficult to provide and why? **(4 marks)**
- c) State the various positive and negative issues that have emanated from embodying speech act in a specific system. **(5 marks)**

Total = 20 marks