



NATIONAL OPEN UNIVERSITY OF NIGERIA
University Village, 91 Cadastral Zone, Nnamdi Azikwe Expressway, Jabi, Abuja
FACULTY OF SCIENCES
2022_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