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**NATIONAL OPEN UNIVERSITY OF NIGERIA**

**University Village, 91 Cadastral Zone, Nnamdi Azikwe Expressway, Jabi, Abuja**

**FACULTY OF SCIENCES**

**NOVEMBER, 2018 EXAMINATIONS**

**COURSE CODE: CIT353**

**COURSE TITLE: Human Computer Interaction**

**CREDIT: 2 Units**

**TIME ALLOWED: 2 Hours**

**INSTRUCTION: Answer Question ONE (1) and any other THREE (3) Questions**

1a) Briefly describe the following effects:

1. Hypertext ***(3 marks)***
2. Hypermedia ***(3 marks)***
3. Animation ***(3 marks)***

b) State the management issues concerned with:

i) Interactive design ***(3 marks)***

ii) prototyping techniques ***(3 marks)***

c) Briefly 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)***

2a) Explain the term ‘Ergonomics’. Give any two examples. ***(4 marks)***

b) Compare Participatory design and Ethnography design in Human Computer Interaction *(****2 marks)***

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

d) State the ethics and methods involved in Participatory design ***(5 marks)***

e) Differentiate between the objectives of interactive design and prototyping. ***(2 marks)***

3a) (i) State the various knowledge required to build an adaptive help system. ***(4 marks)***

(ii) Which of the knowledge in (i) above is easiest to provide? Where can the knowledge be got? What is its disadvantage? ***(3 marks)***

b) Which of the knowledge in (a) above is most difficult to provide and why? ***(3 marks)***

c) State the various positive and negative issues that have emanated from embodying speech act in a specific system. ***(5 marks)***

4a) Extensively discuss video and audio effects in human computer interaction ***(7 marks)***

b) Give **two** (2) advantage and **one** (1) challenge arising from the application of video and audio effects in web browsing and hypertext ***(3 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 ***(1 mark)***

5a) (i) Describe "the Waterfall model" in the software design process of human computer interaction?

 ***(5 marks)***

 (ii) Draw a well-labelled diagram of the Waterfall model ***(2 marks)***

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