



NATIONAL OPEN UNIVERSITY OF NIGERIA
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FACULTY OF SCIENCES
DEPARTMENT OF COMPUTER SCIENCES

2022_2 EXAMINATION

COURSE CODE: CIT 353
COURSE TITLE: Introduction to Human Computer Interaction
CREDIT UNIT: 2
TIME ALLOWED: 2HRS
INSTRUCTION: ANSWER QUESTION ONE (1) AND ANY OTHER THREE

Question 1

1(a)

- (i) Evaluation tests usability and functionality of system be carried out in the laboratory, in the field and/or in collaboration with users. The evaluation technique which covers both design and implementation should be considered at all stages in the design life cycle. Discuss any three (3) of these techniques. *(12 marks)*
- (ii) To avoid some of the Human errors encounter during interaction, Abowd and Beale framework is adopted. Describe how this framework can solve computer interaction problem *(4 marks)*

(b)

- (i) Briefly express your understanding of the term Ergonomics *(6 marks)*
- (ii) The Dialogue style of interaction between computer and user and the Distinct styles of interaction are the two major classes of interaction styles. Briefly explain any four (4) forms of the interface in which they are expressed in *(8 marks)*

Question 2

- (a) Outline the four (4) goals of the Human Computer Interactions *(7½ marks)*
- (b) The development of technology on Human Computer Interaction has helped users with disabilities of various forms. Briefly analyse five (5) of these forms *(8 marks)*

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- (c) Some storage formats that are obtainable in Human Computer Interaction, technology includes text formats, media formats, list four (4) other formats that can be used (*4½ marks*)

Question 3

- (a) Describe the history of five (5) basic human interaction tools in computer science (*10 marks*)
- (b) In order to design an effective menu, it is necessary to put some important issues into consideration, these issues include (*5 marks*)
- (c) List five (5) stages out of the seven Donald Norman's model (*5 marks*)

Question 4

- (a) What are the health threats of the CRT? (*8 marks*)
- (b) Prescribe some safety measures to (i) above (*6 marks*)
- (c) State six of the seven stages involved in soft systems methodology (*6 marks*)

Question 5

- (a) Briefly analyse the concept of hypertext (*9 marks*)
- (b) Outline four (4) ways in which interactions between users and computers can be enhanced (*6 marks*)
- (c) Briefly explain the concept of command line interface (*5 marks*)