NATIONAL OPEN UNIVERSITY OF NIGERIA
91 CADASTRAL ZONE NNAMDI AZIKWE EXPRESSWAY
JABI, ABUJA
Faculty of Science
Department of Computer Science

COURSE CODE: CIT 353

COURSE TITLE: Human Computer Interaction

TIME ALLOWED: $2^{1/}_{2}$ Hours

INSTRUCTION: Answer any **four (4)** questions.

1a.   Enumerate the design principles proposed by Norman
       (7 marks)

1b.   mention and briefly explain any **5** of the common interface used for
       effective interaction and design in HCI.
              (10 marks)

1c.   State the first paradigm in the history of interactive technology.
       ($^{1/}_{2}$ mark)

2a.   what is the term usability in the context of human computer
interaction?($1^{1/}_{2}$ mark)

2b.   As a newly employed human computer interaction expert in
Godson's conglomerate, how would you reframe the following principles in
a **tabular form**, so they can meet the implementation of company's
goals.

   I.   Tolerance
  II.   Feedback
 III.   Affordance
  IV.   Structure
   V.   Simplicity
              (10marks)

2c.   State <u>four</u> major benefits of usability attribute in design
(4marks)

2d.   What is the principle role of a touch-sensitive screen?
(2marks)

3a.   Give four (4) key reasons why the conceptual architecture is
considered beneficial. (4 marks)

3b.   There are golden rules and heuristics governing design, which can
categorized into three collections; Nielsen's 10 heuristic rules, the
shneiderman rule, and Norman's rule. Enumerate any six (6) of the
Shneiderman's 8 golden rules of design. (9marks)

3c.   What is the purpose of carrying out evaluation test?
($1^1/_2$ mark)

3d.   Enumerate three (3) evaluation techniques in use
(3marks)

4a.   Differentiate between user – design and user centered design
(4marks)

4b.   With the aid of a diagram, illustrate the design life cycle
(10 marks)

4c.   list 3 categories of user available in computing world
(3marks)

4d.   _____ paradigm provides opportunity for personal computing
($^1/_2$ mark)

5a.   State any five health hints to be adhered while using display devices
(10marks)

5b.   list five (5) usable senses
(5marks)

5c.   Write down the full meaning of the following acronyms within the
context of HCI

  I.   XML   (1mark)
 II.   HTML   (1mark)
III.   WAP   ($^1/_2$ mark)

6.   In the field of studies, there are some methods used for information
collection, explain the following;

   i. Observation methods
            8marks

ii. Interview technique
5marks
iii. Questionnaire technique $4^{1/}_{2}$
marks