NATIONAL OPEN UNIVERSITY OF NIGERIA
14-16 AHMADU BELLO WAY, VICTORIA ISLAND LAGOS
SCHOOL OF SCIENCE AND TECHNOLOGY
MARCH/APRIL 2015 EXAMINATION

SCHOOL OF SCIENCE AND TECHNOLOGY

COURSE CODE: **CIT 811**
COURSE TITLE: **ERGONOMICS AND USER INTERFACE_**
TIME ALLOWED: **3 Hours**

INSTRUCTION: Answer any five (5) questions.

Total Mark of 100. 20 Marks for each question

1(a). Write a short note on each of the following:
    (i)   Multiprocessing

    (ii)   Multitasking

    (iii)   Multithreading

         (3 marks each)

1(b). Differentiate between Graphical User Interface and Command line? (6 marks)

1(c). Mention five (5) elements inside the system unit (5 marks)

2 (a). Give the full meaning of the following acronyms:
    (i)   GB

    (ii)   RAM

    (iii)   GPS

    (iv)   IAD

    (v)   WIMP

    (vi)   CAD

    (vii)   ASCII

(viii)   OS

(ix)   UCD

(x)   MVC

(1 mark each)

2(b). Differentiate between buffering and spooling (4 marks)

2(c). List three (3) types of operating system (6 marks)

3a. Explain the term "Ergonomics"? (6 marks)

3b. Enumerate four (4) Ergonomics hardware (8 marks)

3c. Mention three benefits of Ergonomics (6 marks)

4a. Explain the term "Task Analysis" (4 marks)

4b. List and explain any three stages of task analysis (10 marks)

4c. Mention any three major consideration of User Centered Design (6 marks)

5a . Identify three (3) preventive measures computer users can follow while working at their PCs. (6 marks)

5 (b). What is a User Interface? (5 marks)

5©. List and explain three types of User Interface. (9 marks)

6(a). Enumerate two security procedures that can protect against unauthorized access (8 marks)

6(b). Write a short note on each of the following:

(i)   Icons

(ii)   Controls (widgets)

(iii)   Menus

(2 marks each)

6(c). Mention any application areas where 3-dimentional graphics can be used. (6 marks)

7a What is a motor skill? (4 marks)

7b. Describe a Human Processor Model (8 marks)

7c. List four primary operations of a computer (8 marks)