**NATIONAL OPEN UNIVERSITY OF NIGERIA**

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

**FACULTY OF SCIENCE**

**DEPARTMENT OF COMPUTER SCIENCE**

**CIT 701 – Foundation of Information and Communication Technology**

**Instruction**: *Answer Question (1) (22 marks) and any other four questions each carrying 12 marks*

**Credit Units: 3 Time:** *2½ hours*

1a) State the distinct stages of information revolution.***(3½ marks)***

b) List the various classes of the information age evolution. In a tabular form, enumerate the characteristics of the various classes of the information age evolution based on Time Period, Majority of worker, Partnership and Principal Tools.***(4½ marks)***

c) State the various characteristics of the information age.

d) Briefly define the following terms: ***(1 mark each. Total = 5 marks)***

1. Work Processes
2. Productivity
3. Effectiveness
4. Reengineering
5. Business Processes

e) List the types of registers we have in a computer hardware.

f) State the benefits of information technology.

2a) List the various functions of information technology***(5 marks)***

b) Briefly describe any five of the functions listed in (a) above ***(5 marks)***

c) Briefly state and define the types of bus. ***(2 marks)***

3a) What is system software? ***(3 marks)***

b) Briefly describe the types of system programs. ***(6½ marks)***

c) What is Storage Area Network (SAN)?

4a) With the aid of illustrative diagram, describe the machine processing sequence***(7½ marks)***

b) Enumerate the various groups of functions of the operating systems ***(4½ marks)***

5a) What do you understand by Add-in-boards? ***(2 marks)***

b) Briefly describe the function of any ten Add-in-boards for microcomputers.***(10 marks)***

6a) Write short notes on Information Technology (IT) procedures.***(8½ marks)***

b) Distinguish between Proprietary operating systems and Non-proprietary operating systems.***(2 marks)***

c) List the common features of most application programs ***(1½ marks)***

7a) There are two broad categories of people in the Information Technology (IT) world. Name them and briefly describe the various sub-classes of each. ***(10 marks)***

b) Define Information Technology professional.***(2 marks)***