



**NATIONAL OPEN UNIVERSITY OF NIGERIA**  
**University Village, 91 Cadastral Zone, Nnamdi Azikwe Expressway, Jabi, Abuja**  
**FACULTY OF SCIENCE**  
**APRIL, 2019 EXAMINATIONS**

**COURSE CODE: CIT701**

**COURSE TITLE: Foundation of Information and Communication Technology**

**CREDIT: 3 Units**

**TIME ALLOWED: 2½ Hours**

**INSTRUCTION: Answer Question 1 and any other FOUR (4) Questions**

- 1a) List the various data collection techniques known to you *(1½ marks)*
- b) How many distinct stages of information revolution has the society experienced? List them. *(3½ marks)*
- c) Enumerate the characteristics of the information age *(5 marks)*
- d) What is an output device? *(2 marks)*
- e) Highlight three characteristics of storage. *(3 marks)*
- f) State four (4) characteristics of Management Information System (MIS). *(4 marks)*
- g) Briefly describe non-impact printing. Give two examples of non-impact printers. *(3 marks)*

- 2a) What is the purpose of web utilities *(3 marks)*
- b) What is Data Flow Diagram (DFD)? *(1 mark)*
- c) Give a table of the symbols used in drawing DFD stating the symbol name, the symbol drawing and the meaning/ uses of the symbol. (Use the table format below). *(8 marks)*

S/N	Name	Symbol	Meaning
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- 3a) Extensively describe the use of Gantt Chart. *(6 marks)*
- b) Distinguish meta-search engines and specialized search engines *(3½ marks)*
- c) List the base inputs in a project *(2½ marks)*
- 4) The Systems Development Life Cycle (SDLC) is a six-phased set of activities that brings about a new Information Technology (IT) application.
  - a) List the phases. *(3 marks)*
  - b) Describe the first two phases. *(9 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) What do you understand by the term *Information and Communication Technology* (ICT)  
(1½ marks)

b) Outline the three main components of ICT. (4½ marks)

c) For the characteristics of Personal and Enterprise computer, complete the cells in the table below with either a "YES" (Y) or "NO" (N) (6 marks)

S/N	Characteristics	Personal System	Enterprise System
i.	Designed for Hands-On Usage		
ii.	Used to Improve Personal Performance		
iii.	Tailored to Personal Preferences and Performance		
iv.	Designed for Shared Use		
v.	Designed to Connect a Variety of Users		
vi.	Designed for Larger Size and Scope		