

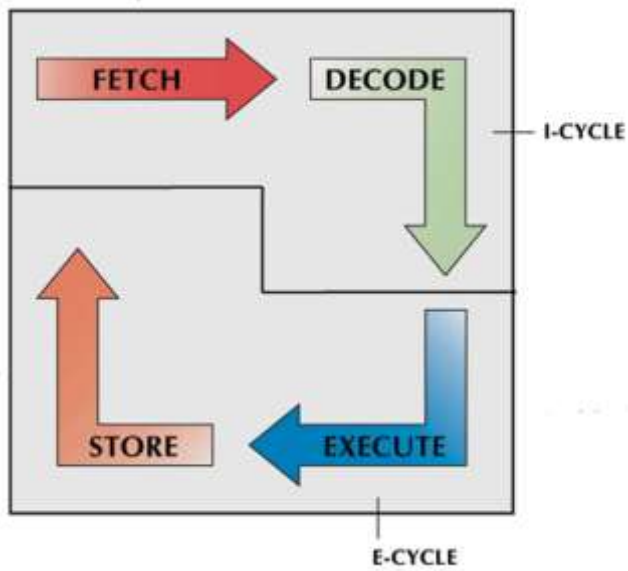


NATIONAL OPEN UNIVERSITY OF NIGERIA
University Village, Plot 91, Cadastral Zone,
Nnamdi Azikiwe Expressway, Jabi, Abuja
FACULTY OF SCIENCES

2023_1 POP EXAMINATION₂₃₁

Course Code:	CIT801
Course Title:	Foundation of Information and Communication Technology
Credit Unit:	3
Time Allowed:	2½
Instruction:	Answer Question 1 and any other three (3) questions

- Q1** **25 marks**
- a. What is Information Communication Technology (ICT)? Describe its importance in today's society. (6 marks)
 - b. Computer systems are composed of several basic components. What are these components? (5 marks)
 - c. List 5 way in which information can be transmitted (5 marks)
 - d. Differentiate between a computer and a computer system (6 marks)
 - e. What term is used to describe the amount of memory required to store one million bytes, letters or characters (3 marks)
- Q2** **15 marks**
- a. List out the seven layers of the OSI model (7 marks)
 - b. Explain the concept of cloud computing and how it is transforming organizations today. (4 marks)
 - c. Outline (4) four common features of application software (4 marks)
- Q3** **15 marks**
- a. The following diagram shows the processing sequence and steps of a CPU (Machine Cycle). Briefly explain the four steps. (8 marks)



- b. Briefly explain the following terms (7 marks)
- (i) Ports
 - (ii) Universal Serial Bus (USB)
 - (iii) Add-in Boards
 - (iv) Expansion Slot

- Q4 (15 marks)
- a. What are output devices? Describe 3 output devices you are familiar with. (8 marks)
 - b. Discuss three differences between storage and memory. (7 marks)

- Q5 (15 marks)
- a. What is a database? (3 marks)
 - b. List any three types of databases (3 marks)
 - c. What are the different levels of database normalization? (6 marks)
 - d. Explain the basic functions of a computer mouse (3 marks)

- Q6 (15 marks)
- a. Explain the following database concepts (8 marks)
 - (i) Views
 - (ii) Indexes
 - (iii) Client server computing
 - (iv) SQL
 - b. What are networking devices? Describe the functions of a router and switch (7 marks)