



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

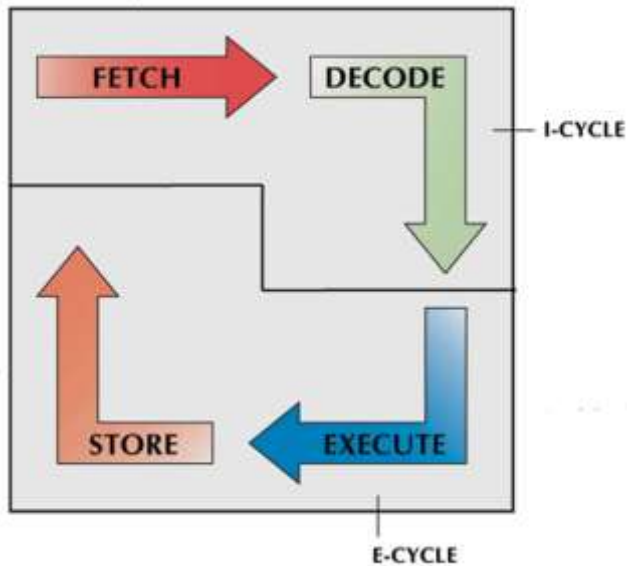
2023_1 POP EXAMINATION

Table with 2 columns: Field (Course Code, Course Title, Credit Unit, Time Allowed, Instruction) and Value (CIT801, Foundation of Information and Communication Technology, 3, 2 1/2, 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)