

University Village, Plot 91, Cadastral Zone, Nnamdi Azikiwe Expressway, Jabi, Abuja

## FACULTY OF SCIENCES DEPARTMENT OF COMPUTER SCIENCE 2023 2 EXAMINATIONS...

COURSE CODE: CIT 411

COURSE TITLE: Microcomputers and Microprocessors

CREDIT UNITS: 2

TIME ALLOWED: 2 HOURS

Instructions: Answer Question 1 and any other three (3)

5 1 C	(8 Marks)
Q1a. What are the technological innovations of Microprocessors?	(4 Marks)
b. How does Microprocessor uses Program Counter?	(6 Marks)
c. Explain Digital Signal Processor	(3 Marks)
d. Describe the work of arithmetic logic unit?	(2 Marks)
e. How does computer performs subtraction?	(2 Marks)
f. Mention four (4) components of 8085 Microprocessor	(2 //////////
Q2a. Discuss the basic blocks of Microcomputer	(6 Marks)
b. With example, explain the concept of Two-Byte Instructions?	(4 Marks)
c. Describe the Pentium Microprocessor	(5 Marks)
c. Describe the Feltium Wicroprocessor	300 St.
Q3a.Describes the concept of Accumulator	(3 Marks)
b. Discuss the Superscalar Microprocessor?	(6 Marks)
c. With example, explain the concept of immediate addressing	(6 Marks)
Q4a. Differentiate between LCALL and ACALL calling functions?	(6 Marks)
b. What is hybrid input device	(4 Marks)
c. Describe 8255 Peripheral Interface Controller	(5 Marks)
Q5a. Briefly discuss the Intel 80286 Microprocessor	(5 Marks)
b. With example, explain data transfer instructions	(10 Marks)