

#### NATIONAL OPEN UNIVERSITY OF NIGERIA

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

#### FACULTY OF SCIENCES APRIL, 2019 EXAMINATIONS

Course Code:	CIT411	
Course Title:	Microcomputers and Microprocessors	
Course Credit	Unit: 2	
Time Allowed:	2 Hours	
Instruction:	Answer Question 1 and any other three ques	tions
Question 1		
(a) Outline an	v four types of interrupts - (6 marks	s)
(b) Explain br	iefly the three types of a typical 80x86 proces	sor - (7.5 marks)
(c) Outline the	actions performed by the microcontroller wi	hen an interrupt is triggered?
	- (5 mar)	(x)
(d) How does	Harvard architecture differ from Von Neuman	nn architecture? - (4 marks)
	oort? - (2.5 marks)	
Question 2		
(a) Write an ac	ssembly program code each for an input and	output operation - (12 marks)
	w is the assembly language beneficial	- (3 marks)
Question 3		10
(a) Briefly dis	cuss the technological innovations of micropi	rocessors - (8 marks)
	-processor trap? How is co-processor instruct	
instruction		- (5 marks)
	microcomputer?	- (2 marks)
Ouestion 4	merocomputer:	- (2 murns)
	any five different types of applicat	tions for microcontrollers and
(a) Enumerate microproc	essors?	- (10 marks)
(b) Enumerate any four benefits of assembly language		(5 marks)

#### Question 5

- (a) From the historical development of the microprocessors, mention the examples of microprocessors from leading corporations - (3 marks)
- (b) Briefly explain the subcategories of computer architecture. (9 marks)
- (c) Outline the data manipulation operations of the microprocessor (3 marks)

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