NATIONAL OPEN UNIVERSITY OF NIGERIA

UNIVERSITY VILLAGE, 91 CADASTRAL ZONE, NNAMDI AZIKWE EXPRESSWAY, JABI, ABUJA FACULTY OF SCIENCE 2024 1 EXAMINATION

COURSE CODE: CIT 344

COURSE TITLE: Introduction to Computer Design

CREDIT: 3 Units TIME: 2% Hours

INSTRUCTION: Answer Question ONE (1) and any other THREE (3) Questions

la)	List two (2) types of latches logic circuit.	(2 mark	is)	
1b)	Briefly describe the three (3) groups of 80 x 86 program control instructions belong to. (6marks)			
1e)	List out at least six (6) set of commands that allow assembler to perform a good number of operations using Assembly language. (6marks)			
1d)	State how combinational circuits differs wi	vith a sequential circuit. (4marks)		
le)	State two (2) types of adder circuit in a com	iputer system.	(1 mark)	
1f)i	With a well-labeled block diagram, shows the difference between the two types of adders.(3marks)			
li)	Why is adder important in a computer?	(1mark)		
Ig)	Give the meaning of this acronym MIDI an applications.	d what does it us	e for in finite st	ate machine
2a)	What does the remaining six 4-bit combination of BCD code represent? (2marks)			
2bi)	Explain the term Mealy Machines.	(3marks)		
2bii)	Explain the term octal number system.	(2marks)		
2c)	Define BCD code.	(3 marks)		
2d)	State five (5) application of multiplexers.	(5marks)		
3n)	List and explain the types of sequential log	ic circuit.	(4marks)	