(i)	Prin	rted Pages: 3 Roll No
(ii)	Que	stions :9 Sub. Code: 0 9 2 0
		Exam. Code: 0 0 2 8
	Ba	achelor of Computer Applications 2nd Semester 1048
		COMPUTER ORGANIZATION Paper-BCA-16-202
Time	Allo	wed: Three Hours] [Maximum Marks: 65
Note	:-	Attempt one question each from Sections A, B, C and D. Section E is compulsory.
ejiny A	194. pt	SECTION-A
1.	(a)	What is Stored Program Architecture? Explain the limitations
		of Stored Program Architecture. 6
ð	(b)	What are combinational blocks? Explain the working of a
	December 18	3-to-8 line decoder with the help of logic symbol, logic
		diagram and truth table. 7
2.	(a)	What is a flip-flop? What is the use of flip-flops? Explain
aner	at enici	the working of any two flip-flops.
	(b)	Multiply-12 and –9 using Booth's algorithm. 7
KALL T		SECTION-B
3.	(a)	What is addressing mode? Explain Direct, Indirect,
		Displacement and Register addressing modes. 7
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	(b)	What are microinstructions? Explain various Arithmetic and
		Logic microinstructions.
4.	(a)	What is instruction Cycle? Explain with the help of a flowchart.
		7.
	(b)	Explain Strobe based and handshake based communication.
٠		· 6
		SECTION-C
5.	(a)	What is memory hierarchy? Explain different types of
		memories used in a computer. 7
	(b)	Explain the working of Virtual Memory with the help of a
		diagram. 6
6.	(a)	What are the differences between Assembly Language and
		Machine Language? What is the use of pseudo instructions
1. 3.		in Assembly Language?
	(b)	Write an Assembly Language program using subroutines to
		perform multiplication of two numbers. 7
		SECTION-D
7.	(a)	What is motherboard? List and explain various components
		attached on a motherboard.
	(b)	What is an Expansion card? Explain any three expansion
		cards.

(a)	What are the various diagnostics performed on a Personal		
	Computer for its maintenance?	6	
(b)			
	be removed from an infected computer?	7	
	SECTION-E		
At	tempt all questions:		
(a)	What is a half adder?	2	
(b)) Define Cache Initialization	2	
(c)	Perform $(12)_{10}^+ (27)_{10}$ using 2's complement.	-3	
(d		2	
(e	What is cycle stealing in DMA?	2	
(f) What is boot sector virus ?	2	
	(b) At (a) (b) (c) (d) (e)	Computer for its maintenance? (b) What is a computer virus? What are the various synthat indicate infection of a PC by a virus? How vibe removed from an infected computer? SECTION-E Attempt all questions: (a) What is a half adder? (b) Define Cache Initialization (c) Perform (12) ₁₀ + (27) ₁₀ using 2's complement. (d) What is an instruction set? (e) What is cycle stealing in DMA?	