Subject Code :	1760
chelor of Computer Application (BCA) 3 rd S COMPUTER ARCHITECTURE	Semester
Paper—I	
Maximum M	
required to attempt any FIVE ques	idates are stions. All
questions carry equal marks. SECTION A	
(a) How Logical and Arithmetic micro are used? Explain the role of flags.	. 8
(b) What is the need of timing signals?	. /
What is the role of instruction cycle? different phases of this cycle.	Explain the 15
SECTION—B	
Explain the following concepts:	7.5
(a) Stack Organisation	7.5
(b) Instruction formats.Discuss the characteristics of the follo	wing control
unit designs:	7.5
(a) Hardwired	7.5
(b) Micro programmed.	(Contd.)

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		SECTION_C	_ ₹
5.	Wı	rite notes on the following:	
		Virtual memory	7.5
		Cache memory.	7.5
6.	(a)	What is the concept of memory organis	ation
		Explain.	7.5
	(b)	Discuss the role of auxiliary memory in	detail.
			7.5
		SECTION—D	
7.	(a)	How I/O processor is used as an inter Explain in detail.	rface (
	(b)	Discuss modes for data transfer operatio	ns.
8.	(a)	Explain the uses of pipeline processing.	7.5
	(b)	How MISD and MIMD architectures are emp Explain.	loyed