## LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

## M.C.A. DEGREE EXAMINATION - COMPUTER APPLICATIONS

FIRST SEMESTER - NOVEMBER 2016

CA 1807 - CO	MPUTER ORGANIZATIO	N & ARCHITECTURE
Date: 08-11-2016 De Time: 01:00-04:00	ept. No.	Max. : 100 Marks
	PART-A	
<b>Answer ALL the questions</b>		10*2=20
<ol> <li>Write the truth table for XOR g</li> <li>What are combinational circuit</li> <li>Mention the methods of simpli</li> <li>Write a note on T flip flop.</li> <li>What are the four types of mice</li> <li>What are the basic types of cor</li> <li>Why is an interface required be</li> <li>Bring out the difference betwee</li> <li>List out the replacement algorit</li> <li>Mention the basic components</li> </ol>	fying Boolean expression.  co-operations? nputer instructions? etween CPU and peripherals? en isolated and memory mappe	ory.
	PART-B	
<b>Answer ALL the questions</b>		5*8=40
11) a) Describe adders with neat di	agram.	
b) Explain decoder and encoder 12) a) Give a detailed description of (or) b) Explain 4 bit binary adder/so	on control unit	
13) a) Explain general register orga	nnization	
b) Describe arithmetic and shif 14) a) Explain DMA.	t microoperations.	
( <b>or</b> ) b) Explain Daisy Chaining.		
15) a) Elucidate the mapping processor (or)	edures in cache memory.	
b) Explain crossbar switch and	multistage switching network	with diagrams.
	PART-C	
<b>Answer ALL Questions</b>		2*20=40
16) Answer the following:		
a) Subtractors	b) Any two flip flops	(10+10)
17) Explain the following with requ	uired figures:	
a) Shift registers	b)Addressing modes	(5+15)
18) Give a detail explanation on	-	
a) Strobe and handshake	b)RAM chip	(15+5)
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