Assavi College of Engineering

Code No.: 251/N

FACULTY OF INFORMATICS

B.E. II/IV Year (IT) II Semester (Supplementary) Examination, December 2008 COMPUTER ORGANIZATION & MICROPROCESSOR

Time: 3 Hours

[Max. Marks: 75

Answer **all** questions of Part A.

Answer any **five** questions from Part B.

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	Part A – (Marks : 25)	
1.	Explain single Bus structure.	-3
2.	Explain how a keyboard is connected to a processor.	3 * %
3.	What is meant by hit rate and miss penalty?	2
4.	Write about LRU replacement algorithm.	2
5.	Write the control sequence for unconditional branch instruction.	3
6.	What is meant by emulation?	3
7.	Write about flash card and flash drives.	2
8.	Write about packed BCD adjust Instruction.	2
9.	What is a macro?	2
10.	Explain how operating system handles I/O.	3
	Part B – (Marks : 50)	
11.	Explain DMA and different arbitration schemes.	10
12.	Explain in detail about synchronous and asynchronous DRAMS.	10
13.	Explain in detail about Virtual memory address translation.	10
14.	Discuss the process involved in executing an instruction by a processor.	10
15.	With necessary diagrams explain the 8086 internal configuration.	10
	Discuss the stack action during a typical sequence of procedure calls and returns.	l 10
17.	Explain about the following:	
	(a) Booth's algorithm(b) Instruction formats of 8086.	5
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