Total No. of Questions: 10 ] [ Total No. of Printed Pages: 3

### CS-601(N)

# B. E. (Sixth Semester) EXAMINATION, June, 2011

(Computer Science & Engg. Branch)

## MICROPROCESSOR AND INTERFACING

 $\sim [CS - 601(N)]$ 

Time: Three Hours

Maximum Marks: 100

Minimum Pass Marks: 35

Note: Attempt any five questions. Attempt one question from each Unit. All questions carry equal marks.

#### Unit-I

- (a) Draw the functional block diagram of 8086 microprocessor. Explain each block in brief.
  - (b) Compare the features of intel 80286, 80386, 80486 and Pentium.

#### Or

- (a) Explain various addressing modes of 8086 microprocessor with suitable examples.
  - (b) Discuss arithmetic and logic instructions. 10

#### Unit-II

3. (a) Describe the general instruction format of 8086 in brief.

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		[2]	12/25	20
(h	What is Macho		CS-6	
Į,	<ul> <li>What is MACRO example.</li> </ul>	? Explain	nested MACRO	wit
	example.	7227		1
\$0 8000		Or		
4. (a)	Explain the structu	red program	ming. Also discus	ss it
	pasic structure.			16
(6)	Explain subroutine	call and retu	rns with example	. 10
		nit — III	\$9	
5. (a)	What is Microcontr	oller ? Expla	in the architectur	0
	8051 microcontrolle	Г.	.m the membership	e o. 10
(b)	Write a short note of	n co-proces	eor.	10
		Or		10
6. (a)	What is single abi-			
()	What is single chip to	merocomput	er? Give IC nun	ıber
	of some microcontro	mer and disc	uss their application	
(b)	Draw and avalate at			10
(5)	Draw and explain the 8748 microcontroller	unctional b	dock diagram of i	
				10
4 1		ut ~ IV		
/. (a)	Draw and explain t	he expande	d block diagram	of
	transmitter and recei	ver section o	f 8251 USART.	10
(b)	Explain in detail var	ious bus sta	ndards and comp	аге
	them,	¥ 2	0.	10
		Or		
8. (a)	Draw and discuss	the archite	ture of 8089 1	/O
_	processor.			10
(b)	Explain the function	of the follo	owing in 8259 w	ith
- 18	block diagram:			10
	<ol><li>Priority resolver</li></ol>			
8	(ii) Cascade buffer/c	omparator		

### [3]

## Unit-V

9. (a)		Explain various types of semiconductor memory.	
	(b)	Write a short note on cache memory.	10
		Or	
10. Explain the following memories:			20
	(i)	Main memory	
	(ii)	Secondary memory	
	(iii)	Cache memory	
	(iv)	Magnetic memory	

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