No. of Printed Pages: 3

BICS-012

B.Tech. – VIEP – COMPUTER SCIENCE AND ENGINEERING (BTCSVI)

Term-End Examination

00375

December, 2014

BICS-012: MICROPROCESSOR

Tin	ne : 3 I	nours Maximum Marks:	Maximum Marks: 70		
Note: Attempt any seven questions. All questions carry equal marks.					
1.	(a)	Write on 16 bit microprocessors.	5		
	(b)	Define code segment, data segment and explain with neat diagrams.	5		
2.	(a)	What are the registers used in 8086?	5		
	(b)	Define assembly language. Explain it with suitable example.	5		
3.	(a)	With examples write down the 8086 condition flags.	5		
	(b)	What are the different flow chart symbols? Draw the flow chart for a program to read in 24 data samples from a port, correct each value and store each in a memory location.	5		

4.	(a)	What is a recursive procedure? Explain with example.	5
	(b)	Explain the program development algorithm, with the help of a neat diagram.	5
5.	(a)	What is an interrupt? What are the major actions of interrupt? Draw the diagram of interrupt response.	5
	(b)	Draw the interrupt-pointer table and explain it.	5
6.	(a)	Define Hardware Interrupt. What are its applications?	5
	(b)	Write a short note on Interrupt for timing.	5
7.	Draw	are the methods of parallel data transfer? the block diagram of 8255A system ections.	10
8.	Draw	the block diagram and pin descriptions for	10
•		atel 8251A USART.	10
9.	(a)	Compare the 8086 and 8087 architectures and circuit connections.	5
	(b)	What are the clock cycles for instructions in 8087?	5

10.	(a)	What is	paging	mode?
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(b) Explain and draw the diagram showing 80386 system addressing (when paging mode is enabled).

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