No. of Printed Pages: 3

BIEL-015

B.Tech. - VIEP - ELECTRONICS AND COMMUNICATION ENGINEERING (BTECVI)

00640

Term-End Examination December, 2014

BIEL-015 : MICROPROCESSOR AND ITS APPLICATIONS

Time: 3 hours Maximum Marks: 70

Note: Attempt any seven questions. Assume suitable missing data, if any.

- 1. (a) What is the basic difference between a microprocessor and a microcomputer?
 - (b) Write a short note on PSW in an 8085 microprocessor.
- 2. What is a bus? What are the different types of buses supported by 8085? How does the processor send and receive information from memory and I/O devices? Explain.

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3.	betw	t do you mean by Interrupt? Differentiate een Software and Hardware interrupt. Also ain enabling, disabling and masking of	
	inter	rupt.	10
4.	Discuss briefly 80386 segmentation unit, paging unit and protection.		10
5.	What do you mean by the minimum mode or the maximum mode? How can we select a minimum mode? Name the maximum mode signals. 10		
6.	Write an 8085 assembly language programme to generate the first seven terms of Fibonacci series. 10		
7.	(a)	Explain the different bits of 8086 FLAG Register.	5
	(b)	Explain the working of A/D converter interfacing.	5
8.	Explain BSR and I/O mode of operation of 8255 with the help of control word. 10		
9.	Write short notes on any ${\it two}$ of the following : $2{ imes}5$		
	(a)	8257 – DMA Controller	
	(b)	Interfacing Seven Segment Display	
	(c)	Interfacing Static RAMs	

- **10.** Define opcode and operand. Consider the following instructions of 8085:
 - (a) MOV H, L
 - (b) XCHG
 - (c) MVI H, 54H
 - (d) DAD B
 - (e) ANI 34H

Specify the operand in each of the above instructions and explain the task performed by each of the above instructions.

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