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**BIEE-015** 

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P.T.O.

## B.Tech. - VIEP - ELECTRICAL ENGINEERING (BTELVI)

## Term-End Examination December, 2015

## BIEE-015 : MICROPROCESSOR AND ITS APPLICATIONS

Time:	3 hours Maximum Marks : 70
Note:	
(i)	Attempt any <b>seven</b> questions.
(ii)	Assume missing data, if any.
(iii)	Use of scientific calculator is permitted.
1. (a)	With the help of a neatly labelled block diagram, explain the operation of a microcomputer.
(b)	instructions:
	<ul><li>(i) LXI H, address</li><li>(ii) STA address</li></ul>
<b>2.</b> (a)	Explain the classification of instruction set of 8085 microprocessor with suitable examples.
(b)	Explain the bus organisation of 8085

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3.	What are the various addressing modes used in 8085 microprocessor? Explain each with suitable examples. 10	
4.	With the help of a neatly labelled block diagram, explain the architecture of 8085 microprocessor. 10	
5.	What are the advantages of 8086 microprocessor over 8085 microprocessor? Explain the various operating modes of 8086 microprocessor.  10	
6.	What is a Direct Memory Address (DMA) Controller? Explain the different transferring modes used in DMA controller.  10	
7.	What is an interrupt ? What are the issues in implementing interrupts ? Explain RST instruction. $3+4+3=10$	
8.	Write short notes on the following : $2\times5=10$ (i) 8255-PPI (ii) 8259-PIC	
9.	What is a directive ? Write a program for obtaining the square root of a number.  10	
10.	Explain the following for 8086 microprocessor: $5+5=10$	
	(i) Memory Address Space	
	(ii) Data Organisation	