No. of Printed Pages: 2

**ロロクタら** 

**BIEE-015** 

BIEE-015

P.T.O.

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

## Term-End Examination June, 2016

BIEE-015 : MICROPROCESSOR AND ITS APPLICATIONS

Maximum Marks: 70 Time: 3 hours Note: (i) Attempt any seven questions. Assume missing data, if any. (ii) Use of scientific calculator is permitted. (iii) Explain the function of an ALU and input 1. (a) and output devices in the operation of a 5 microprocessor. Explain the working of tri-state bus and give (b) 5 its advantages. Explain the operation of the following 2. (a) 5 instructions: (i) INR M (ii) ADD M Explain various flag registers of 8085. 5 (b)

1

<b>J.</b>	Explain the architecture of 6000 microprocessor	
	with the help of a neat block diagram.	10
4.	Write short notes on the following: 2×6  (a) De-multiplexing of address data bus  (b) Interfacing of Static RAM	5=10
5.	Explain each group of instruction set and give one example for each group.	10
6.	Write a program to add two hex numbers which are at memory location 2400 and 2450 respectively. Store the result at memory location 2670.	10
7.	Sketch and explain 8259 PIC and its operating modes.	10
8.	Explain different data transfer techniques using 8155.	10
9.	Write short notes on the following: 2×8  (a) 8255 PPI  (b) 8237 DMA	5=10
10.	What are the different addressing modes used in the 8086 microprocessor? Explain each with a suitable example.	10