No. of Printed Pages: 2

**BIEL-036** 

## DIPLOMA - VIEP - ELECTRONICS AND COMMUNICATION ENGINEERING (DECVI)

## **Term-End Examination**

00959

December, 2017

**BIEL-036: MICROPROCESSOR** 

Time: 2 hours

Maximum Marks: 70

Note: Attempt any five questions. Question no. 1 is compulsory. Use of scientific calculator is permitted.

- 1. (a) What are the functions of an accumulator?
  - (b) What is the difference between a JMP instruction and a CALL instruction?
  - (c) What are the steps involved in fetching a byte in 8085 microprocessor?
  - (d) What is the difference between maskable and non-maskable interrupts?
  - (e) What is Interrupt Service Subroutine?
  - (f) What are the functions of status pin in 8086 microprocessor?
  - (g) What are predefined interrupts in 8086 microprocessor?  $7\times2=14$

2.	(a)	Describe various registers in 8085	
		microprocessor with appropriate example.	10
	(b)	Explain the need of program counter.	4
3.	(a)	What is meant by Interrupts?	4
	(b)	Explain various types of priority interrupts in 8085 microprocessor.	10
4.	arch	a neat block diagram, explain the internal itecture of programmable peripheral face (8255) and its registers.	14
5.		ain the interfacing of analog-to-digital D) and digital-to-analog (D to A) converters microprocessor with a suitable example.	14
6.	(a)	With a neat block diagram, explain the architecture of 8086 microprocessor.	7
	(b)	Write a program to subtract two 8-bit numbers in 8085 microprocessor.	7
7.	Write short notes on any $two$ of the following: $2\times7=$		=14
	(a)	Multiplexers and Demultiplexers	
	(b)	8085 based Data Acquisition System	
	(c)	Comparison of Microprocessors (8085 and 8086)	
BIEL-036		2 1,0	000