No. of Printed Pages : 2

BIEL-036

DIPLOMA – VIEP – ELECTRONICS AND COMMUNICATION ENGINEERING (DECVI)

Term-End Examination

00474

June, 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) Enlist the limitations of 8085 microprocessor.

(b) How many operations are there in the instruction set of 8085 microprocessor ?

(c) What is the difference between maskable and non-maskable interrupts ?

(d) What are the different types of write operations using 8253 ?

(e) Give the physical significance of multitasking.

(f) What is stack ? Explain the use of it.

(g) Why is address bus unidirectional and data bus bidirectional ? *7×2=14*

2. Draw and explain the timing diagram of memory read cycle with example. *14*

3. (a) Explain 8085 instruction set with suitable example. *7*

   (b) Write a program to multiply two 8-bit numbers in 8085 microprocessor. *7*

4. With a neat block diagram, explain the internal architecture of Programmable Interval Timer 8253. *14*

5. (a) Draw a block diagram to demonstrate the 8085 microprocessor based traffic light control system. *7*

   (b) Explain the various interrupts in 8085 microprocessor. *7*

6. State the functions of NMI, DT/R, HOLD, BHE, ALE, READY and TEST signals of 8085 microprocessor with examples. *14*

7. Write short notes on any ***two*** of the following : *2×7=14*

   (a) ALU Timing and Control Unit

   (b) Instruction Set of 8086

   (c) Internal Architecture of 80286 Microcontroller
