Roll No. ☐☐☐☐☐☐☐☐☐☐☐☐☐   **Total No. of Pages : 02**

Total No. of Questions : 07

BCA (2009 to 2010 Batch)   (Sem.–3)
INTRODUCTION TO MICROPROCESSOR
Subject Code : BC-305
Paper ID : [B0213]

Time : 3 Hrs.   **Max. Marks : 60**

INSTRUCTION TO CANDIDATES :
 1. **SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.**
 2. **SECTION-B contains SIX questions carrying TEN marks each and a student has to attempt any FOUR questions.**

SECTION - A

Ql) Write briefly :

 a) Applications of microprocessor.

 b) What is Microcomputer?

 c) Why is 8086 divided into odd and even banks?

 d) List the 16 - bit registers of 8085 microprocessor.

 e) Differentiate between maskable and non-maskable interrupts.

 f) Protected Vs Real Memory Mode.

 g) Define Operand.

 h) List the various addressing modes.

 i) Define instruction cycle and machine cycle.

 j) Mention the purpose of SID and SOD lines.

SECTION - B

Q2) a) Explain the brief history of a microprocessor. How it is different from a micro-controller?

b) Discuss the role of stack register, program counter and general purpose registers in a microprocessor.

Q3) a) Discuss any five branch instructions in 8085 microprocessor.

b) Explain the Maximum Mode of 8086 microprocessor.

Q4) Discuss the block diagram of 8085 microprocessor in detail.

Q5) Draw and explain the pin diagram of 8086 microprocessor.

Q6) a) Discuss in detail the various signals in 8086.

b) What are the various flags available in 8085 microprocessor?

Q7) a) What are Interrupts? Discuss the 8257 interrupt controller.

b) What are the various types of instructions available in 8085 microprocessor?