

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

Q1) 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?