Roll No. | | | | | | | | | | | | |

Total No. of Pages: 01
Total No. of Questions: 07

BCA (Sem.- 3rd)

INTRODUCTION TO MICROPROCESSOR

Subject Code: BC-305
Paper ID: [B0213]

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

INSTRUCTIONS TO CANDIDATE:
1) ***Section-A is Compulsory.***
2) ***Attempt any four questions from Section-B.***

SECTION–A

Q.1. Write briefly: (10x2=20)

a) Discuss four applications of Microprocessor.

b) What is various status flags provided in 8085?

c) Draw a diagram of fetch cycle in 8085.

d) List limitations of 8-bit microprocessor?

e) How pipelining is achieved in Intel 8086?

f) What is the operation performed by the instruction CB W of 8086? Give an example for its use.

g) Differentiate memory mapped and program controlled I/O

h) What is the necessity of using chips like 8087 along with 8086 microprocessor?

i) What is the importance of arithmetic coprocessor?

j) Why DMA access is faster method than other methods?

SECTION – B

(4x10=40)

Q.2. Draw the pin diagram of Intel 8085. Explain the requirement of program counter and stack pointer in the architecture of Intel 8085.

Q.3. Discuss in detail about the interrupts system in Intel 8086. Explain the interrupt pointer.

Q.4. (a) Discuss the operation of 8284A clock generator.
(b) Discuss the operational command words in 8257 interrupt controller.

Q.5. Discuss the concept of memory paging in Intel 8086.

Q.6. What is the use of DMA controller? Explain its operation with neat block diagram.

Q.7. Discuss the concept of RISC and CISC processors.