Roll No. ☐☐☐☐☐☐☐☐☐☐☐   Total No. of Pages : 01

Total No. of Questions : 08

BCA / DEP   (Sem.–4)
MICROPROCESSORS & MICROCONTROLLERS
Subject Code : BSBC-402
M.Code : 10067
Date of Examination : 28-06-21

Time : 2 Hrs.   Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :
  1.   **Attempt any FIVE question(s), each question carries 12 marks.**

1. What is a microprocessor? Draw the block diagram of a basic microcomputer. List the main features and the applications of microprocessor.

2. Write a short note on the architecture of 8085 Microprocessor. Discuss the addressing modes used in 8085 Microprocessor.

3. Define the phases of the instruction cycle of a microprocessor. Discuss the various types of addressing modes.

4. Compare the architectures of RISC and CISC processors. Give examples and list their respective features.

5. Differentiate between a microcontroller and microprocessor. What are the different types of microcontrollers?

6. Discuss the memory organization of 8051 Microcontroller. Differentiate between internal and external memory.

7. List the main features of DMA Controller 8257. How are DMA operations performed?

8. Draw and discuss the architecture of PIC 8259. Also, draw the pin diagram.