

Total Pages: 03

July-22-00262

B. Tech. EXAMINATION, 2022

Semester IV (CBCS)

MICROPROCESSOR AND PERIPHERALS

EC-402

Time: 3 Hours

Maximum Marks: 60

The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary/continuation sheet will be issued.

Note: Attempt Five questions in all, selecting one question from each Sections A, B, C and D. Q. No. 9 is compulsory.

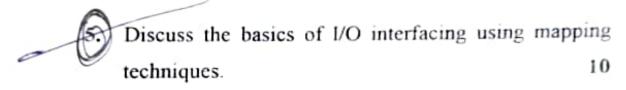
Section A

- What are Addressing modes? Discuss in 8085
 Instruction word size and Opcode format. 10
- 2. Discuss the Branch and Machine control instruction of 8085 in detail 10

Section B

- 3. Explain the concept of Stack and Subroutine with the help of suitable example.)
 - Discuss the absolute and parallel Memory interfacing decoding techniques.

Section C



 Explain the concept of Serial I/O and Asynchronous serial data communication using SID.

Section D

- Discuss the Execution unit and bus interface unit of 8086 Microprocessor.
- 8. Write notes on the following:
 - (a) Memory Segmentation
 - (b) Memory Addressing
 - (c) 8086 Hardware pin signals.

(Compulsory Question)

- q. Attempt all questions 8088 10×2=20
 - (a) Write a short note on 808 Microprocessor
 - (b) What is Memory Mapped I/O ?
 - (c) Write the applications of Microprocessor
 - what are Direct and Immediate Addressing modes?
 - (e) Differentiate between Memory and I/O Interfacing.
 - (f) Define the terms Synchronous and Asynchronous communication.
 - (g) Write the trends in Microprocessor technology.
 - (h) What do you mean by Interrupt ?
 - Write a short note on 8085 machine cycles.
 - What are Logic and bit manipulation instructions?