

[Total No. of Questions - 9] [Total No. of Printed Pages - 2]

Dec-22-0160

EC-402 (Microprocessors & Peripherals)

(ECE, CSE, IT)

B.Tech-4th (CBCS)

Time : 3 Hours

Max. 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 Section A, B, C and D. Section E is compulsory.

SECTION-A (Attempt any One)

1. Discuss the 8085 Microprocessor Architecture and its pin configuration. (10)
2. Discuss the Data transfer and arithmetic instructions of 8085 Microprocessor. (10)

SECTION-B (Attempt any One)

3. Write note on: (10)
 - a) Interrupt system of 8085
 - b) Stack and Subroutine
 - c) Memory map and Address range
4. Discuss the Memory Interfacing decoding techniques in detail. (10)

SECTION-C (Attempt any One)

5. Differentiate between I/O Mapped and Memory Mapped I/O. Give Example. (10)
6. Discuss the 8257 DMA Controller in detail. (10)

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SECTION-D (Attempt any One)

7. Discuss the main features and architecture of 8086 Microprocessor. (10)
8. Discuss the Memory Segmentation and Memory Addressing of 8086 Microprocessor. (10)

SECTION- E (Compulsory Section)

9. Attempt all Questions. (10×2=20)
 - a) What are Addressing Modes?
 - b) What is the Instruction word size of 8085 Microprocessor?
 - c) What do you mean by timing diagram?
 - d) What are the Branch instructions of 8085?
 - e) Write an Assembly language program for addition of 2 numbers.
 - f) Write short note on Asynchronous serial data communication using SOD and SID.
 - g) Write short note on 8086 bus interface unit.
 - h) What are the types of memory in 8085 Microprocessor?
 - i) Define the term I/O Interfacing.
 - j) Write short note on 8087 floating point coprocessor.