

2003000204020092 / 2011000304020092
EXAMINATION FEBRUARY-MARCH 2024
BACHELOR OF SCIENCE (FOURTH SEMESTER)
ELECTRONICS - IV (MICROPROCESSOR)

[Time: As per schedule]

[Max. Marks: 50]

Instructions:

1. Fill up strictly the following details on your answer book

- a) Name of the Examination : **BACHELOR OF SCIENCE (FOURTH SEMESTER)**
- b) Name of the Subject : **ELECTRONICS - IV (MICROPROCESSOR)**
- c) Subject Code No : **2003000204020092/2011000304020092**

2. Sketch neat and labelled diagram wherever necessary.
3. Figures to the right indicate full marks of the question.
4. All questions are compulsory.
5. Q. 1 is compulsory.
6. Symbols and abbreviations have their usual meanings.
7. Assume data if required.

Seat No:

--	--	--	--	--	--

Student's Signature

Q.1 Answer in brief.

8

- A) State the function/use of HOLD and HLDA pin of 8085A with respect to another master seeking control of system bus.
- B) What will be frequency at COUT pin of 8058A microprocessor if the crystal connected to 8085A microprocessor is 6MHz?
- C) What is the importance of ALE pin of 8085A microprocessor?
- D) Define addressing mode and state all addressing modes of 8085A microprocessor.

Q.2

- A) What is stack? What is stack pointer? Explain, with suitable example, the importance of stack in case of a interrupt. **7**
- B) Explain the register structure of 8085A microprocessor. **7**

OR

- A) Explain various instructions of Logical group of instructions set of 8085 μ P. **7**
- B) Explain, in detail, flag register of 8085A microprocessor. **7**

- Q.3**
- A) Explain, with suitable example, various instructions of Data transfer group of instruction set of 8085A microprocessor. **7**
 - B) Explain, with suitable example, various instructions of Branch group of instruction set of 8085A microprocessor. **7**

OR

- A) Explain, in detail, the function of HOLD and HLDC pin of 8085A with reference to other master like direct memory access controller. **7**
 - B) Explain, with suitable example, various instructions of Branch group of instruction set of 8085A microprocessor. **7**
- Q.4**
- A) Explain, with suitable example, the importance of stack in case of a interrupt. **7**
 - B) Explain the architecture of 8085A microprocessor. **7**

OR

- A) With the help of functional block diagram of Programmable Interval Timer 8253 chip explain function of each block. **7**
- B) With the help of functional block diagram of Programmable Peripheral Interface 8255 chip explain function of each block. **7**
