

2107108

**DIPLOMA OF VOCATION**  
**Industrial Electronics**  
**Subject: Microprocessor and Peripheral Devices**  
**Subject Code: EDMP-304**  
**Semester: Sixth**  
**July 2021**  
**Theory (External): 70 Marks**  
**Time: 03 Hours**

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**Instructions to the Students**

1. This Question paper consists of two Sections. All sections are compulsory.
2. Section A comprises 10 questions of objective type in nature. All questions are compulsory. Each question carries 2 marks.
3. Section B comprises 8 essay type questions out of which students need to do any 5. Each question carries 10 marks.
4. Read the questions carefully and write the answers in the answer sheets provided.
5. Do not write anything on the question paper.
6. Wherever necessary, the diagram drawn should be neat and properly labelled

Roll Number									

**SECTION –A (SHORT/OBJECTIVE TYPE QUESTIONS)**  
**(10x2=20 Marks)**

- A. List the allowed register pairs of 8085.
- B. Mention the purpose of SID line.
- C. What is an operand?
- D. Define interfacing?
- E. Define instruction cycle
- F. Which Stack is used in 8085?
- G. What happens when HLT instruction is executed in processor?
- H. What are the various registers in 8085?
- I. Define Address Bus and Control Bus.
- J. What is meant by Maskable interrupts?

**SECTION –B (ESSAY TYPE QUESTIONS)**  
**(5x10=50 Marks)**

1. Draw & explain the block diagram of 8085 microprocessor.
2. Define 'Bus'. Explain the 'Bus' organization of 8085 microprocessor.
3. Define Addressing. Discuss the various addressing modes of 8085 microprocessor.
4. (a) What is instruction & instruction set?  
(b) Discuss in short the functions performed by the instructions in: -
  - (i) Data Transfer Operations
  - (ii) Arithmetic Operations
  - (iii) Logical Operations
  - (iv) Branching Operations
  - (v) Machine Control Operations
5. Write a program for multiplication of two 8' bit numbers using 8085.
6. Write a short note on the evolution of microprocessor and its impact on the modern society.
7. Discuss in brief the concept of peripheral mapped I/O.
8. Describe the operation of stack with suitable example.

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