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**UTTARAKHAND TECHNICAL UNIVERSITY**  
**B.TECH IV SEM, Pre-university Examination**  
**Microprocessors**

PAPER CODE: TCS-605  
TIME: 2 1/2 HOURS

PAPER ID:  
MAX. MARKS: 100

**NOTE: Attempt all Questions. All questions carry equal marks.**

**Q1. Attempt any two.**

- a) Explain the different Branching operation of 8085 in detail with suitable examples
- b) Explain the following
  - i) Instruction Format for 8085
  - ii) Subroutines
  - iii) T-state
  - iv) Machine cycle
- c) Write a program to generate a delay of 0.4 sec if the crystal frequency is 5 MHz.

**Q2. Attempt any two.**

- a) Explain the concept of Memory segmentation in 8086. Discuss its advantages
- b) Explain maximum mode operation of 8086 with diagram.
- c) Explain the Interrupt vector table of 8086. Also discuss the sequence of operation when an interrupt occurs.

**Q3. Attempt any two**

- a) Explain 8255 and also its different operating modes with diagram
- b) What are different data transfer schemes. Explain in detail.
- c) i) Explain the I/O mode set control word format for 8255.  
ii) Explain the architecture of programmable interval timer.

**Q4. Attempt any two**

- a) Explain the addressing modes of 8086 with suitable examples.
- b) i) Explain Assembler Directives with examples.  
ii) Discuss CALL and RET instructions of 8086

e) Explain the operation of successive approximation ADC.

**Q5. Attempt any two**

- a) Explain the concept of memory bank of 8086 with diagram
- b) Compare 8086 and 8088 microprocessor
- c) Write note on:
  - i) PSW of 8086
  - ii) Generation of 8086 Physical address with example
  - iii) Function of Queue

# Microprocessor 8085 Model Questions Paper

**Wolfgang Guggemos**



**Microprocessor 8085 Model Questions Paper:**

## Decoding **Microprocessor 8085 Model Questions Paper**: Revealing the Captivating Potential of Verbal Expression

In an era characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Microprocessor 8085 Model Questions Paper**," a mesmerizing literary creation penned with a celebrated wordsmith, readers embark on an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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