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

PAPER CODE: TCS-405
TIME: 2 ½ 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

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Conference on Marine Applications for Microprocessors Institute of Marine Engineers,1983 **American Scientist** ,1942 **Control Engineering** ,1983 Instrumentation and automatic control systems **Amateur Radio** ,1993

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