

**COURSE CODE : ECE313**

**COURSE TITLE : MICROPROCESSOR AND MICROCONTROLLERS**

**Max.Marks: 40**

**Time Allowed: 01:30 hrs**

*Read the following instructions carefully before attempting the question paper.*

1. This question paper divided into two parts A and B.
2. Part A contains 5 questions of 2 marks each. All questions are compulsory.
3. Part B contains 3 questions of 10 marks each. In each question attempt either question (a) or (b), in case both (a) and (b) questions are attempted for any question then only the first attempted question will be evaluated.
4. Answer all questions in serial order.
5. Do not write or mark anything on the question paper except your registration number at the designated space.

**PART A**

Q1 a)What is the function of PC and SP of 8085.

[ 2 Marks ]

b)What are the difference between Harvard and Von Neumann Architecture.

[ 2 Marks ]

c)What is the function of ALE pin in 8085.

[ 2 Marks ]

d)List the name of interrupts available in micro-controller 8051?

[ 2 Marks ]

e)Explain DJNZ instructions of intel 8051 microcontroller?

[ 2 Marks ]

**PART B**

Q2 a)Connect 8k EPROM and 4k RAM with 8085. The memory IC's available are 4kX8 EPROM and 4kX4 RAM.

[ 10 Marks ]

OR

b) (i) List few applications of microprocessor-based system

[ 5 Marks ]

(ii) What is an Operand?

[ 5 Marks ]

Q3 a)Draw and explain block diagram of 8051 micro-controller in detail?

[ 10 Marks ]

OR

b) (i)Test to see whether A has the value 45H. Is it does, send 99H to R0, otherwise, clear it.

[ 5 Marks ]

[ 5 Marks ]

[ 10 Marks ]

(ii)Explain all the addressing mode for 8051.

Q4 a)Give the pin diagram of 8085 in detail.

[ 5 Marks ]

[ 5 Marks ]

OR

b) (i)Explain the LCD operations and its Pin description

(ii)Discuss in detail Arithmetic instructions of 8051.

-- End of Question Paper --

# Microprocessor And Microcontroller Question Paper

**Thomas Griffiths**



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