

S.B. Roll No.....

MICROPROCESSOR

4th/ECE/ETV/EMP/COMP/IT/CSE/EEE/ECE(II)6129/2565/0624/Nov'15

Duration: 3Hrs

M.Marks=75

SECTION A

QUES1.FILL IN THE BLANKS:

1x15=15

- Stack pointer is a _____ bit register.
- EPROM stands for _____.
- OUT is _____ byte instruction.
- _____ is used to hold the memory address of next instruction to be executed.
- ALE stands for _____.
- In _____ addressing mode, data is specified in the instruction itself.
- DMA stands for _____.
- _____ is the highest priority interrupt.
- What is the function of SID pin in 8085?
- Name various hardware interrupts of 8085.
- Maximum memory which can be connected with 8085 microprocessor.
- Stack is based upon _____ principle.
- Last instruction of sub- routine is always _____.
- BSR stands for _____.
- _____ Instruction is used to compliment the contents of accumulator.

SECTION B

QUES 2 Attempt any FIVE questions

5x6=30

- What are the applications of microprocessor?
- Discuss the registers of 8085 microprocessor.
- Explain T-state, Machine cycle and Instruction Cycle.
- Compare Memory mapped I/O and I/O mapped I/O.
- Explain six data transfer instructions of 8085.
- What is stack? Explain its operation with PUSH and POP instructions.
- Explain data bus, address bus and control bus of 8085.
- What is an interrupt? Explain hardware interrupts of 8085.

SECTION C

QUES3.Attempt any THREE questions

3x10=30

- Draw pin diagram of 8085. And explain functions of each pin.
- What is addressing mode? Explain various addressing modes of 8085.
- What is DMA data transfer scheme? Explain in detail with diagram and flow chart.
- Draw and explain the block diagram of 8255.
- Write a short note on any **TWO**
 - Interrupt driven data transfer technique
 - 8251
 - Instruction format of 8085.