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FOURTH SEMESTER
B.TECH INFORMATION TECHNOLOGY
EC 6504 MICROPROCESSOR AND MICROCONTROLLER

- 1. What is Microprocessor? Give the power supply & clock frequency of 8085**
A microprocessor is a multipurpose, programmable logic device that needs binary instructions from a storage device called memory accepts binary data as input and processes data according to those instructions and provides result as output. The power supply of 8085 is +5V and clock frequency is 5MHz.
- 2. List few applications of microprocessor-based system.**
It is used:
 - i. For measurements, display and control of current, voltage, temperature, pressure, etc.
 - ii. For traffic control and industrial automation.
 - iii. For speed control of machines.
- 3. What are the functions of an accumulator?**
The accumulator is the register associated with the ALU operations and sometimes I/O operations. It is an integral part of ALU. It holds one of data to be processed by ALU. It also temporarily stores the result of the operation performed by the ALU.
- 4. List the 16-bit registers of 8085 microprocessor.**
Stack pointer (SP) and Program counter (PC).
- 5. List the address register pairs of 8085.**
 - B Register pair
 - D-E Register pair
 - H-L register pair
- 6. Mention the purpose of SID and SOD lines**
SID (Serial input data line):
It is an input line through which the microprocessor accepts serial data.
SOD (Serial output data line):
It is an output line through which the microprocessor sends output serial data.
- 7. What is an Opcode?**
The part of the instruction that specifies the operation to be performed is called the operation code or opcode.

1

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