

# ME6702 MECHATRONICS

## QUESTION BANK

### UNIT – III Programmable Peripheral Interface

#### **PART A (2 Marks)**

1. What do you mean by interfacing? (AUC MAY 2012)
2. List out some applications of microprocessor. (AUC MAY 2012, NOV 2011)
3. Define interfacing devices. (AUC MAY 2010)
4. What is transceiver? (AUC MAY 2010)
5. What is the role of tristate buffer in interfacing of peripherals with CPU? (MAY 2011)
6. Write the use of ALE signal in 8085. (AUC MAY 2011)
7. List the fundamentals of I/O technique. (AUC NOV 2010)
8. List any two points comparing memory I/O and peripheral I/O. (AUC NOV 2010)
9. Define the term step angle with reference to a stepper motor. (AUC NOV 2011)

#### **PART B (8,16 Marks)**

1. Draw & explain the block diagram & operation of temperature controlling system with a microprocessor. (AUC MAY 2012, NOV 2010 )
2. Draw & explain the block diagram & operation of traffic light controller with a microprocessor. (AUC MAY 2012, MAY 2010, MAY 2011, NOV 2010, NOV 2011)
3. How to control the speed of stepper motor with 8085 CPU & its interface? Draw a neat diagram & explain its operation. (AUC MAY 2010, MAY 2011)
4. Write short notes on keyboard interfacing. (AUC NOV 2011)