

8. Explain the following:
- (a) 8255A Programmable Peripheral Interface,
 - (b) RS-232C interface.

Exam. Code : 206704
Subject Code : 4815

M.Sc. Computer Science 4th Semester
MICROPROCESSOR AND ITS APPLICATIONS
Paper: MCS-402

Time Allowed—2 Hours] [Maximum Marks—100

Note :— There are **eight** questions of equal marks. Candidates are required to attempt any **four** questions.

1. Explain the different components of a microprocessor.
2. Discuss at least five applications of microprocessors.
3. Explain the instruction execution sequence by drawing the timing diagram showing system clock and bus cycle.
4. How does 8086 microprocessor interact with the outside world ? Explain the purpose of various pins.
5. How is data stored and retrieved in computer memory ?
6. Write short notes on:
 - (a) Storage memory
 - (b) Dynamic RAM.
7. What is an interrupt ? How does 8086/8088 microprocessor handle interrupts ?