Sub:Embedded Sysstem

Total Marks:75 Class:SYBSCIT(SEM IV)

Duration: 2hr and 30min 16/3/20

Note: All the questions are compulsory.

(1) Answer any three of the following: (15)

1. Explain PLD.
2. Explain Classification of Embedded System.
3. Diffrence between Microprocessors and Micrcontrollers.
4. Explain RISC and CISC controllers.
5. Diffrence between Embedded System and General purpose computer system.
6. Explain operational and non-operational quality attributes.

(2) Answer any three of the following: (15)

1. Explain concept of washing machine.
2. Explain Watchdog Timers.
3. Explain types of RAM and ROM.
4. Explain Flash memory.
5. Explain Data bus.
6. Application of Embedded System

(3) Answer any three of the following: (15)

1. Explain the 8051 family.
2. Why external memory is important in embedded system?
3. Explain the working of 8051 microcontroller hardware in embedded system?
4. Write a short note on checksum bytes.
5. Write a short note on oscillator.
6. Explain Port 1,Port 2,Port 3 in 8051.

(4) Answer any three of the following: (15)

1. What is emulator ?
2. Explain the remote debuger.
3. What is the use of interrupts in microcontroller?
4. What is the use of infinite loop?
5. Explain the structure of embedded program
6. Various power saving modes.

(5) Answer any three of the following: (15)

1. Explain the types of operating system.
2. State characteristics of real time operating system.
3. Explain the use list file?
4. Explain the concept of Hex file.
5. What is simulator? Explain the advantage and dis-advantage of simulator.
6. Explain the phases of EDLC.