

Duration: 2 ½ Hrs. • [SUIT - Embedded Systems]

Marks: 75

- (1) All questions are compulsory.
 (2) Figures to the right indicate marks.

- 1. Attempt any three of the following: 15**
- What are different classification of embedded system based on generations. (CO1)[R]
 - What is an embedded system? explain in brief about history of embedded system. (CO1)[R]
 - What are the different applications of embedded system. (CO1)[R]
 - Differentiate between microprocessor and microcontroller. (CO1)[E]
 - Differentiate between RISC and CISC (CO1)[E]
- 2. Attempt any three of the following: 15**
- Explain domain specific embedded system. (CO2)[U]
 - Explain different control and status register. (CO2)[U]
 - Write short notes on timer driver /device driver. (CO2)[U]
 - Explain RAM memory and ROM. (CO2)[U]
 - Explain memory testing. (CO2)[U]
- 3. Attempt any three of the following: 15**
- Explain memory organization of 8051. (CO3)[U]
 - Explain pin diagram of 8051. (CO3)[U]
 - Explain different addressing modes of micro-controller 8051. (CO3)[U]
 - Explain time delay. (CO3)[U]
 - Write short notes on data types of 8052c (CO3)[U]
- 4. Attempt any three of the following: 15**
- Explain the structure of embedded program. (CO4)[U]
 - What do you mean by control statement explain. (CO4)[R]
 - Write short note on static and dramatic explain. (CO4)[U]
 - Explain infinite loop and cross compiler. (CO4)[U]
 - Write short notes on compiling. (CO4)[U]
- 5. Attempt any three of the following: 15**
- What are different features of real time operating system. (CO5)[U]
 - Write short notes on schedules. (CO5)[U]
 - What is class compiler and how it work. (CO5)[U]
 - Explain integrated development environment (IDE). (CO5)[U]
 - What are different types of file generated on class compilation. (CO5)[U]
-