

Roll No.

Total No. of Pages : 02

Total No. of Questions : 09

B.Tech.(ECE) (2011 Batch) (Sem.-7,8)

**EMBEDDED SYSTEMS**

Subject Code : BTEC-701

Paper ID : [A3000]

Time : 3 Hrs.

Max. Marks : 60

**INSTRUCTION TO CANDIDATES :**

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt ANY FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt ANY TWO questions.

**SECTION-A**

**Q1. Define the following :**

- a) Vector Table
- b) Instruction Set
- c) Difference between ADI 0lh, INR
- d) Pointer
- e) Register
- f) Memory
- g) Structure
- h) Compiler
- i) Sensors
- j) ANA and ORA Instructions

### **SECTION-B**

- Q2. How to add two 8-bit numbers in assembly language?
- Q3. Write a note on Biometric & RFID.
- Q4. Write a program to generate factorial of a number using functions.
- Q5. Discuss about instruction scheduling.
- Q6. Differentiate between ADC and DAC.

### **SECTION-C**

- Q7. Describe the working of LCD Display.
- Q8. Define Addressing Modes. Explain all in detail.
- Q9. What are various debugging tools? Explain.