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 has to attempt any FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students has to attempt any TWO questions.

SECTION-A

1. Write briefly :

   a) Interrupts

   b) Instruction

   c) PSR

   d) BUS

   e) Register

   f) GSM

   g) Function

   h) Assembler

   i) Sensors

   j) LDA and STA Instructions

SECTION-B

2. Explain with help of diagram functions of various registers.

3. What do you mean by addressing mode? Describe any four.

4. Differentiate between call by value and call by reference in functions.

5. Write a program to generate pyramid of stars (*) using loop.

6. Differentiate between ADC and DAC.

SECTION-C

7. Describe the working of Stepper Motor and DC Motor.

8. Write a note on both: Instruction Scheduling and Register Allocation

9. Discuss GSM interfaces in detail.