

**[4236] - 301**  
**M.Sc. - II**  
**ELECTRONIC SCIENCE**  
**EL3 UT05 : Embedded Systems**  
**(2008 Pattern) (Sem. - III)**

*Time : 3 Hours]*

*[Max. Marks : 80*

*Instructions to the candidates:*

- 1) All questions are compulsory.*
- 2) Figures to the right indicate full marks.*
- 3) Draw neat diagrams wherever necessary.*

**Q1)** Attempt any two of the following :

**[2 × 8 = 16]**

- a) Draw programming model of 8051 showing different registers without their addresses. Explain TCON and PSW registers of 8051.
- b) State the features of I<sup>2</sup>C bus and explain with waveforms following conditions.
  - i) Start
  - ii) Stop
  - iii) ACKExplain data format used in I<sup>2</sup>C bus standard.
- c) Write a program in C for single digit decimal calculator for addition and subtraction. Read input from keyboard and display result on LCD. (8051 microcontroller)

**Q2)** Attempt any two of the following :

**[2 × 8 = 16]**

- a) Write function of EA and ALE pins of 8051. Draw and explain the circuit for interfacing of external 8k × 8bit EPROM and 8k × 8bit RAM to 8051 using suitable 3:8 decoder. Show all control lines and memory map.
- b) Draw schematic diagram of 8051 based target board with serial port interface to computer. List the components required to design target board. Explain how you will test crystal and ports. Explain reset circuit used in 8051 based system.
- c) Draw circuit diagram to interface two stepper motors to port 1 of 8051. Write C program to rotate stepper motors one in clockwise and other in anticlockwise direction continuously.

**P.T.O.**

# Embedded Systems Question Paper Wbut

**DJ Losen**



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