

**[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

**Richard Bailey**



## **Embedded Systems Question Paper:**

## Decoding **Embedded Systems Question Paper**: Revealing the Captivating Potential of Verbal Expression

In a time characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its power to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Embedded Systems Question Paper**," a mesmerizing literary creation penned by way of a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring impact on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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