

Code No: H6801/R13

M. Tech. II Semester Supplementary Examinations, May-2017

EMBEDDED-C

(Common to VLSI&ES, ES&VLSI, VLSID&ES, ES and VLSID)

Time: 3 Hours

Max. Marks: 60

Answer any FIVE Questions
All Questions Carry Equal Marks

1. a Explain basic step to develop embedded software 6
b What is interrupt? Explain interrupt concept in 8051 microcontroller 6
2. a Write assembly level program for reading and writing bits 6
b Write assembly level program for Counting goats 6
3. a Explain in detail about The Project Header with example 6
b Write assembly level program to display 'Hello Embedded World' 6
4. a Write assembly level program for creating 50ms hardware delay using Timer 1 6
b Explain basic concept of creating hardware timeout with example 6
5. Write assembly level program for intruder alarm system suitable for detecting attempted thefts in a home 12
6. a Explain in detail about Creating a portable hardware delay 6
b Explain about Memory issues in 8051 microcontroller Family 6
7. a Explain in detail how to select operating system should use in embedded system 6
b Explain about Key software components used in intruder alarm system 6
8. Explain in detail about below terms with example 6
 - a. Testing a hardware timeout
 - b. more reliable switch interface 6
