

Subject Code: G5502/R13

M. Tech –I Semester Regular/Supplementary Examinations, April, 2015

EMBEDDED - C

(Embedded Systems)

Time: 3 Hours

Max Marks: 60

Answer any FIVE questions

All questions carry EQUAL marks

1. a). Define an Embedded system. give any two real time applications
b). Which type of the processors are used in embedded systems, Explain in detail
2. a). Explain about the external interface of the standard 8051 controller
b). Explain about 8051 micro controller
 - (i) I/O pins,
 - (ii) interrupts,
 - (iii) power consumptions
 - (iv), memory issues of 8051 micro controller
3. a). What are basic techniques fir reading from port pins
b). Explain the example counting goats
4. Explain
 - a) Reading and writing bits(simple version)
 - b) Reading and writing bits(generic version)
5. Explain the terms
 - a) The project header(MAIN.H)
 - b) The Port header (PORT.H)
6. Explain about
 - a) Reconstructing the Hello embedded world
 - b) Reconstructing the goat –counting example
7. a). Explain the creation of hardware delays using Timer 0 and Timer 1
b). Explain the testing loop time outs
8. a). Explain the software architecture of intruder alarm system
b). What are the key software components used in Intruder alarm system

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