

Code: 9D06102

M.Tech I Semester Supplementary Examinations August 2016

EMBEDDED SYSTEM CONCEPTS

(Common to DSCE, DECS, ECE, ES, VLSIES, ESVLSI & VLSIESD)

(For students admitted in 2012, 2013, 2014 & 2015 only)

Time: 3 hours

Max. Marks: 60

Answer any FIVE questions
All questions carry equal marks

- 1 (a) Give an account on classification of embedded systems.
(b) Distinguish between microprocessor and micro-controller. What are the issues in embedded software development?
- 2 (a) What are the different memory devices used in embedded systems?
(b) Explain input output devices used in embedded systems.
- 3 (a) Explain the selecting an architecture saving memory space.
(b) List four types of utility programs.
- 4 Explain parallel port and serial port device driver development procedure.
- 5 Define the following:
(a) Object oriented program.
(b) Inline assembly.
(c) Macros and functions.
- 6 (a) Explain how communication takes place between two processors.
(b) Define a task and threads.
- 7 (a) Explain the need for project management in embedded system and write its advantages.
(b) What is ROM emulator?
- 8 (a) What is target system? How does the target system differ from final embedded system?
(b) Explain the abilities and problems with simulators.
