

Roll No

MEVD-302(B)

M.E./M.Tech., III Semester

Examination, December 2016

Embedded System Programming (Elective-IV)

Time : Three Hours

Maximum Marks : 70

- Note:** i) Attempt any five questions.
ii) Each question carry equal marks.

1. a) Describe the Architecture of Linux operating system, with all its modules? 7
b) Write a shell script that compares two given files and displays the number of common words. 7
2. a) What is the minimum software environment you need to create an embedded C program? Write strengths and weakness of "Super loops"? 7
b) Explain the detail 80196 Microcontrollers. 7
3. a) How do you write software to read from and/or write to the port on an 8051 microcontroller? 7
b) Explain Assembler, compilers, linker and compare it? 7
4. a) Compare various kind of memory in terms of read speed, write speed, write times? 7
b) Explain IO programming models. 7

5. Explain queue and stack with suitable example. 14
6. Describe the generalized block diagram of embedded system? Explain challenges, issues, trends in embedded system. 14
7. a) Explain sequential and concurrent models in embedded system. 7
b) How do you create a simple delay without using any Hardware (timer) resources? 7
8. Write a short notes (any two) : 14
 - a) Test coverage tools
 - b) Loops in C
 - c) Software design and memory management
