Total No. of Questions : 8]   [Total No. of Printed Pages : 2

Roll No ....

MEVD-302(B)
M.E./M.Tech., III Semester
Examination, November 2018
Embedded System Programming
(Elective-IV)

Time : Three Hours

Maximum Marks : 70

Note: i) Attempt any five questions.
ii) All questions carry equal marks.
iii) Assuming missing data suitably.

1. a) Explain in detail about Linux operating system. Write limitations, advantages and disadvantages of Linux operating system.   8
   b) What is the role of C-programming in Embedded systems?   6

2. a) Explain in detail about writing device drivers. Explain in smod and rm mod commands available in Linux.   7
   b) How the memory management techniques in Embedded systems?   7

3. a) Explain in detail architecture of 8051.   6
   b) Compare 8051, 68HC11 and 80196 microcontrollers.   8

4. a) What is Shell programming? Write a shell script that compares two given files and displays the number of common words.   10
   b) Write short notes on IO programming modes.   4

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5. a) Explain profilers and test coverage tools.   6
   b) Explain pointers in C.   3
   c) Write short notes on scheduling.   5

6. a) What is Concurrent software design? Explain in detail sequential and concurrent models in Embedded systems.   9
   b) Differentiate between emulator and simulator.   5

7. What is Embedded system? Discuss in detail. Design issues, challenges, trends in Embedded system.   14

8. a) Write a program in 8051 assembly language for a ascending order of 'n' numbers.   8
   b) What is Assemblers and compiler? Explain in detail.   6

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