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Roll No .....

**MEVD-302(B)****M.E./M.Tech., III Semester**

Examination, June 2017

**Embedded System Programming****(Elective-IV)****Time : Three Hours****Maximum Marks : 70**

**Note:** i) Attempt any five questions out of eight questions.  
 ii) Each question carry equal marks.  
 iii) Assume suitable data, if required.

1. a) Give an introductory note on LINUX Operating System.  
 b) What do you mean by shell programming? Explain its importance in LINUX.
2. a) Explain the utilization of C programming in our normal routine life.  
 b) Explain the consequences of data structures used for C programming.
3. a) Write some examples explaining the sequential and concurrent models.  
 b) Explain the memory types that are used in embedded systems.
4. a) Write any five points explaining the usage of C in embedded system.  
 b) Explain the concept of memory management in embedded system.

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5. a) Write and explain some challenges and trends in embedded systems.  
 b) Write some design issues in embedded system and how we can resolve these issues. Explain.

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6. a) Discuss some of the points for writing device drivers.  
 b) Discuss about the writing time and space sensitive programs.
7. a) Write a C program for 8051 microcontroller explain the 16 bit processor for memory management.  
 b) Explain the differences in 68HC11 and 80196 microcontrollers with respect to their programming.

8. Write short notes (any two):

- a) Assembler
- b) Compiler
- c) Debuggers
- d) Test coverage tools

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