Roll No ....

MEVD-202
M.E./M.Tech. II Semester
Examination, June 2013
Real Time Operating System

Time : Three Hours

Maximum Marks : 70

Note: Answer all questions. Attempt two sections from each questions. Section (a) is compulsory from each question. All questions carry equal marks.

1. a) What are functions of an operating system? Discuss different types of advanced OS.   7
   b) Explain Inter process communication with suitable example.   7
   c) Discuss memory management & file system organization.   7

2. a) Discuss multitasking and multi programming with suitable examples. What is patch processing.   7
   b) Explain disk allocation methods and disk scheduling along with their applications.   7
   c) Describe rate monotonic analysis & Earliest deadline first.   7

3. a) Explain kernel structure & task scheduling with proper diagram.   7
   b) Discuss priority inheritance protocol.   7
   c) Why scheduling is necessary for multiprocessor? Explain distributed systems.   7

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4. a) Discuss program implementation steps in V_x works. Also give its sentax.   7
   b) Explain Benchmarking Real time operating system.   7
   c) Write on the following terms :   7
      i) RT Linux
      ii) PSOS.

5. a) Describe unix as a real-time operating system with suitable example.   7
   b) Explain COS-II & Host target approach.   7
   c) Discuss performance metrics of RTOS with example.   7

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