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

Roll No ....

MEVD-202
M.E./M.Tech. II Semester
Examination, December 2016
Real Time Operating System

Time : Three Hours

Maximum Marks : 70

Note : Attempt any five questions. Each question carry equal marks.

1. a) Explain Inter process communication in operating system? 7

   b) Explain internal and external Fragmentation in memory management with suitable example? 7

2. a) Define interrupt level and task level with diagram. 7

   b) Define various scheduling methods in Real Time Operating System. 7

3. a) Define the following term clock driven and event driven with suitable example. 7

   b) Define two types of priority based kernels. 7

4. Explain in detail Task scheduling and Task management. 14

5. a) Explain distributed system. Write the feature and advantage of distributed system. 7

   b) Explain priority inversion problem with example. 7

450

MEVD-202   PTO

6. a) What is meant by RTOS? What are the goals and performance metrics of RTOS? 7

   b) What are the different types of semaphores in Vxworks RTOS? Which is the fastest? 7

7. Explain how a real time operating system differ from traditional operating system. Name a few real time operating system that are commercially available? Explain any one. 14

8. Write a short notes (any two) : 14
   a) Fully preemptible kernel
   b) Commercial embedded operating system
   c) E.D.F.

******

451

MEVD-202