

rgpvonline.com

Roll No .....

**MEVD - 202**  
**M.E./M.Tech. II Semester**  
 Examination, December 2015  
**Real Time Operating System**

Time : Three Hours

Maximum Marks : 70

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

1. a) What is Hard Real time system and how can we differentiate it from a soft real time system.  
 b) Explain Inter process communication with example.
2. a) Explain critical section of code? Give some methods to implement critical section.  
 b) What is Real time task scheduling with example?
3. a) What is Rate Monotonic Scheduling? When is its use recommended?  
 b) How can one resolve the problem of priority inversion?
4. Explain different scheduling algorithms in multiprocessor and distributed system?

5. Explain Vx works in term of :

- i) Platform overview
- ii) Hardware support
- iii) Features
- iv) Uses (Applications)

6. a) What is priority inversion? How does it manifest it-self in practice?

- b) Can unix work as Real time operating system. Explain with example.

7. a) Discuss features of commercial operating system? Give some example of commercial operating system.

- b) Explain Real time task scheduling.

8. Write a short notes (Any Three) :

- a) Fully preemptible kernel
- b) I/o subsystem
- c) Memory management
- d) Host target approach

\*\*\*\*\*