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Register Number:

Name of the Candidate:

**B.Sc. DEGREE EXAMINATION, May 2015****(COMPUTER SCIENCE)****(SECOND YEAR)****(PART-III)****220/250/210: OPERATING SYSTEMS**

(Common for B.Sc I.T, DD and B.C.A)

Time: Three hours

Maximum: 100 marks

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**SECTION-A****(8×5=40)****Answer any EIGHT questions**

1. Explain the following terms:  
a) Multi programming      b) Spooling
2. Mention the differences between pre-emptive and non pre-emptive scheduling.
3. Explain FIFO page replacement algorithm.
4. Differentiate paging and segmentation.
5. Discuss the features of UNIX user interface.
6. Explain any one interprocess communication mechanism in UNIX operating system.
7. What is environment subsystems? Discuss any two subsystems that work with Windows NT.
8. Discuss the features of windows NT operating.
9. Describe the fork/exec process model of LINUX operating system.
10. Write on LINUX's security model.

**SECTION-B****(3×20=60)****Answer any THREE questions**

11. What is meant by process? Explain the process concepts with its states PCB and operations.
12. What is a deadlock? Explain the deadlock avoidance algorithm with suitable example.
13. Describe the UNIX I/O systems in detail.
14. Explain the system components of windows NT operating systems.
15. Write on LINUX memory management techniques in detail.

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