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**B.E./B.Tech.(Full Time) DEGREE END SEMESTER EXAMINATIONS, APR/MAY2012**  
**ELECTRONICS AND COMMUNICATION ENGINEERING BRANCH**  
**SEVENTH SEMESTER**  
**EC 501- OPERATING SYSTEMS**  
**(REGULATIONS 2004)**

**Duration: 3 Hours**

**Max.marks:100**

**Answer ALL questions**  
**PART-A (10x2=20 Marks)**

1. Define application programs.
2. Draw MS-DOS layer structure.
3. List methods to logically implement the send / receive operations.
4. Compare bounded capacity and unbounded capacity.
5. Draw a two-level page-table scheme.
6. Write the procedure to handle page fault.
7. List common file types.
8. List the circumstances under which CPU scheduling decisions may take place.
9. List the issues that a common network designer must address.
10. What does extensibility refer to?

**PART-B (5X16=80 Marks)**

- 11.Explain the information maintenance and other features of system calls. (16)
- 12.(a) Explain the information pieces of task control block and the states of process. (16)
- OR**
- 12.(b)With diagrams explain the scheduling queues and the schedulers. (16)
- 13.(a) Explain the basic method and the hardware support of paging scheme. (16)
- OR**
- 13(b)Explain the basic method and the hardware support of segmentation scheme. (16)
- 14.(a) Explain the features that characterize deadlocks. (16)
- OR**
- 14.(b) Explain about interrupts and DMA of I/O devices. (16)

15.(a) Explain various types of distributed operating system. (16)

**OR**

15.(b) Explain the Linux distributions and the Linux system components. (16)