

**UG-716**

**BCA-03**

**B.C.A. DEGREE EXAMINATION – JUNE 2006.**

**First Year**

**(For candidates admitted in AY 2004-05, CY 2005  
and AY 2005-06)**

**INTRODUCTION TO SYSTEM SOFTWARE**

**Time : 3 hours**

**Maximum marks : 75**

**PART A — (5 × 5 = 25 marks)**

**Answer any FIVE questions.**

1. What are Assembler directives? Give two examples.
2. Write a rule in box to identify integer, float and character.
3. Explain how a time shared system functions?
4. Explain how spooling works?
5. Explain the different permissions which can be assigned for a file and how is it achieved in Unix.
6. Write a shell script to count the number of lines containing “hello” as patters in a file.
7. Write a script to delete all records of D from emp file and write the other records to a new file. Use Sed.

**PART B — (5 × 10 = 50 marks)**

**Answer any FIVE questions.**

8. Explain the different phases of a compiler.
  9. Explain the layered and client server model of operating system.
  10. Explain the process control block and process state diagram.
  11. Explain priority scheduling and round robin scheduling. Give an example for each.
  12. Explain the conditions that will lead to deadlock.
  13. Explain how paging system is implemented.
  14. Explain how editing is done with vi editor.
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