

**PGDCA (Practicals) / MCA (I Yr) / BCA**

01447

**Term-End Practical Examination**

**December, 2011**

**CS-02P:INTRODUCTION TO SOFTWARE**

*Time allowed : 2 hours*

*Maximum Marks : 100*

*(Weightage : 15%)*

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**Note :** *There are 3 questions in this paper for 70 marks. Answer them all. Rest 30 marks are for viva - voce.*

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1. Write a shell program that displays the last modification time of any file. 25
  2. Write a shell script to translate the upper case alphabets to lower case in a given text file. 25
  3. Write and execute the following commands of UNIX :
    - (a) To count lines, words and characters in a given text file. 10
    - (b) To delete all the files in the current working directory whose name ends with ".bak". 10
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