



BCA 16

IV Semester B.C.A. Examination, August 2011
UNIX AND SHELL PROGRAMMING.

Time : 3 Hours

Max. Marks : 80

Instruction : Answer all questions in Part - A and either (a) or (b) of each question in Part - B.

PART - A

I. Answer all questions : (1x10=10)

- 1) Define file.
- 2) Define shell.
- 3) What is shell script ?
- 4) Define filters.
- 5) What is a who command ?
- 6) What is put ?
- 7) How will you list the current directory in columnar format ?
- 8) What is boot block ?
- 9) What is meaning of .and.. ?
- 10) Why a shell is called a command-interpreter ?

II. Answer the questions in a paragraph : (5x4=20)

- 11) Explain the structure of UNIX.
- 12) Explain the software components of UNIX.
- 13) Explain features of file system.
- 14) Explain the use of commands get and put in shell programming with example.
- 15) Explain conditional expression with example.

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PART - B

I. Answer the questions in detail : (5×10=50)

16) a) Explain the loop statements in UNIX.

OR

b) Explain various system calls in UNIX.

17) a) With an example, explain the steps to build your own command library of programs.

OR

b) What is difference between the use of pipe and redirection symbols ?

18) a) Explain the working environment or build in variables of the shell.

OR

b) What is meant by process ? Explain any four process related system calls with syntax.

19) a) Explain the text file processing with example.

OR

b) Explain how commands can be executed without invoking new process.

20) a) Explain the conditional statement in UNIX.

OR

b) What is kernel ? Draw block diagram of the system kernel, explain in it.

(5×10=50)

G.P.S