## Important Note: 1. On completing your answers, compulsority draw diagonal cross lines on the remaining blank pages. 2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.

## Third Semester B.E. Degree Examination, December 2011 UNIX and Shell Programming

Time: 3 hrs. Max. Marks:100

Note: Answer any FIVE full questions, selecting atleast TWO Questions, from each part.

| PART – A |  |  |  |  |  |  |  |
|----------|--|--|--|--|--|--|--|
| 1        | a.<br>b.<br>c.   | Describe the salient features of UNIX operating system. With the help of a diagram, explain the UNIX file system. Explain briefly absolute pathname and relative pathnames with examples.  | (08 Marks)<br>(06 Marks)<br>(06 Marks)     |  |  |  |  |
| 2        | b.   | Which command is used for listing file attributes? Briefly describe the significance of each field of the output.  (08 Mark What are file permissions? How do you use Chmod to set the permissions in a relation manner?  (08 Mark Briefly explain S(Substitute) command in ex mode of a Vi editor.  (04 Mark Command Section 1)   |  |  |  |  |  |
| 3        | b.   | What are wild cards? Explain the shells wild cards with example. Explain the command 'PS'. Discuss different options used by 'PS'. What are environment variables? Explain any three.  | (08 Marks)<br>(08 Marks)<br>(04 Marks)     |  |  |  |  |
| 4        | a.<br>b.   | Explain briefly the significance of read, write and execute permission for a director  |  |  |  |  |  |
|          | c. Explain the sort command. Briefly discuss the important sort options. |  |  |  |  |  |  |
|          |  | <u>PART – B</u>  | (06 Marks)                                 |  |  |  |  |
| 5        | a.<br>b.   | What is grep? Explain any unce options and grop what characters are lised by grep and control of the second of the |  |  |  |  |  |
|          | c.   | Briefly explain the different ways of addressing used in sed, with example.  | (06 Marks)                                 |  |  |  |  |
| 6        | a.<br>b.<br>c.   | Explain the significance of special parameters used by shell.  How test can be used to test the file permission? Write a shell script to check wheth has executable permission or not.  Explain the usage of 'expr' command in shell programming.  |  |  |  |  |  |
| 7        | a.<br>b.   | with example: i) NR and NF   | (06 Marks) ii) index (10 Marks) (04 Marks) |  |  |  |  |
| 8        | a<br>b<br>c  | user name and displays it with a greeting message.  Briefly discuss about lists and arrays in perl.  Briefly discuss about lists and arrays in perl.  Briefly discuss about lists and arrays in perl.  | (08 Marks)<br>(06 Marks)<br>(06 Marks)     |  |  |  |  |

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