

**B.Tech. – VIEP – COMPUTER SCIENCE AND
ENGINEERING (BTCSVI)**

Term-End Examination

00823

June, 2018

**BICS-026 : UNIX INTERNALS AND SHELL
PROGRAMMING**

Time : 3 hours

Maximum Marks : 70

Note : Answer any **seven** questions. All questions carry equal marks.

1. What is a file ? Explain the different types of files available in UNIX operating system. 10

2. Discuss the following : 5+5
 - (a) LINK
 - (b) UNLINK

3. Explain the following file handling commands : wc, split, comm and cmp, with the help of an example. 10

4. Explain the system BOOT and INIT process. 10

5. Define Zombie and Orphan processes. Explain process control in UNIX. 10

- 6.** Write a shell program to perform the following activities : *10*
- (i) Print the calendar of the current month
 - (ii) List group of file names stored in a file
- 7.** Explain the pipes concept in detail. *10*
- 8.** Discuss the utility of shell metacharacters using suitable examples. Write a shell script that takes the command line argument and report whether it is a directory or a file or something else. *10*
- 9.** Explain different communication methods provided by UNIX. *10*
- 10.** Write short notes on the following : *5+5*
- (a) Distributed UNIX System
 - (b) Process Tracing
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