

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

Term-End Examination

December, 2013

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

Time : 3 hours

Maximum Marks : 70

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

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| 1. | Explain buffer headers and structured the buffer pool. | 10 |
| 2. | Explain the structure of a regular file with neat sketch. | 10 |
| 3. | Briefly explain the allocation of disk blocks. | 10 |
| 4. | Write a short note on : | |
| | (a) Read | 5 |
| | (b) Write in file systems | 5 |
| 5. | Explain the pipes concept in detail. | 10 |
| 6. | Discuss the following : | |
| | (a) LINK | 5 |
| | (b) UNLINK | 5 |
| 7. | Explain the components of the context of a process with neat diagram. | 10 |

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| 8. | Explain the system BOOT and INIT process. | 10 |
| 9. | Explain shell variable, shell script and shell command. | 10 |
| 10. | (a) Briefly explain passing arguments to scripts. | 5 |
| | (b) Explain network communication socket. | 5 |
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