**2CS506 – Operating Systems**

**Index**

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| **Sr.**  **No.** | **Title of experiment** | **Date** | **Marks (as per rubrics)** | | | | | **Total Marks (10)** | **Sign** |
| **02** | **02** | **02** | **02** | **02** |
| 1. | a) Getting acquaintance with basic UNIX commands.  b) Getting acquaintance with UNIX filters. (Appendix – 1) |  |  |  |  |  |  |  |  |
| 2. | Write a shell script for performing the functions of a basic calculator. (Using  decision making and case control structure). |  |  |  |  |  |  |  |  |
| 3. | a) Write a shell script to generate the series of number multiply by 2.  b) Write a shell script to generate all the combinations of 1, 2 and 3. |  |  |  |  |  |  |  |  |
| 4. | Write a shell script for implementing directory management. |  |  |  |  |  |  |  |  |
| 5. | Write a shell script for performing basic functions related to DBMS. |  |  |  |  |  |  |  |  |
| 6. | a) Write a shell script to compare the contents of two files.  b) Write a shell script to concatenate all given file into a single file. |  |  |  |  |  |  |  |  |
| 7. | a) Write a shell script to keep on accepting lines of text and write the text into  a data file until the user inputs "end". The script should count the number  of lines input and display them.  b) Write a shell script to print the reverse of an input number. |  |  |  |  |  |  |  |  |
| 8. | a) Write a shell script which imitates head command.  b) Write a shell script which imitates tail command. |  |  |  |  |  |  |  |  |
| 9. | a) Write a C program to implement a system call using the fork()  b) Write a C program to implement grep command. |  |  |  |  |  |  |  |  |
| 10. | Demonstrate the concept of thread using pthread library. |  |  |  |  |  |  |  |  |

**Lab Faculty Signature and Name**