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| **Subject Title** | Operating System Lab |  |
| **Subject Code** | **CS204PPC03** |

**LIST OF EXPERIMENTS OF OPERATING SYSTEM**

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| S.NO. | EXPERIMENT | QR |
| 1 | To study about the basics of UNIX |  |
| 2 | To study of Basic UNIX Commands and various UNIX editors suchas vi, ed, ex and EMACS. |  |
| 3 | To study of various UNIX editors such as vi, ed, ex and EMACS. |  |
| 4 | To write C Programs using the following system calls of UNIX operating system fork, exec, getpid, exit, wait, close, stat, opendir, readdir. |  |
| 5 | To write C programs to simulate UNIX commands like cp, ls, grep. |  |
| 6 | To write simple shell programs by using conditional, branching and looping statements. |  |
| 7 | To write a C program for implementation of Priority scheduling algorithms. |  |
| 8 | To write a C program for implementation of Round Robin scheduling algorithms. |  |
| 9 | To write a C program for implementation of FCFS and SJF scheduling algorithms. |  |
| 10 | To write a C program for implementation of SJF scheduling algorithms. |  |
| 11 | To write a C-program to implement the producer – consumer problem using semaphores. |  |
| 12 | To write a c program to implement IPC using shared memory. |  |
| 13 | To write a C program to implement banker‟s algorithm for deadlock avoidance. |  |
| 14 | To write a C program to implement algorithm for deadlock detection. |  |
| 15 | To write a c program to implement Threading and Synchronization Applications. |  |
| 16 | To write a C program for implementation memory allocation methods for fixed partition using first fit. |  |
| 17 | To write a C program for implementation of FCFS and SJF scheduling algorithms WORST FIT |  |
| 18 | To write a C program for implementation of FCFS and SJF scheduling algorithms BEST FIT |  |
| 19 | To write a c program to implement Paging technique for memory management. |  |
| 20 | To write a C program for implementation of FIFO page replacement algorithm. |  |
| 21 | To write a c program to implement LRU page replacement algorithm. |  |
| 22 | To write C program to implement LFU page replacement algorithm. |  |
| 23 | To write C program to organize the file using single level directory. |  |
| 24 | To write C program to organize the file using two level directory. |  |
| 25 | To write a C program for sequential file for processing the student information. |  |
| 26 | To write a C program for random access file for processing the employee details. |  |
| 27 | To write a C program for random access file for processing the employee details. |  |