2022

MCA

2nd Semester Examination

ADVANCED OPERATING SYSTEM LAB.

PAPER—MCA-297

(Practical)

Full Marks : 100

Time : 4 Hours

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

Answer any *two* questions. 2×40

1. Demonstrate using a program how can you fork a new child process that displays list of files where parent process should wait for the completion of child.

2. Implement LRU page replacement algorithm using a shell program.

3. Write a shell program to find the reverse of a number.

4. Write a shell program to check a string is palindrome or not.

5. Using a shell program, implement FCFS CPU scheduling algorithm.

6. Write a shell program to check a file is exist or not and if it is exists then display its type.

7. Write a program to create a new process using system() that displays the processes running on your system.

8. Demonstrate using a program how can you duplicate a Program's Process using fork().

9. How can you create a Zombie Process ? Illustrate it using a program.

10. Write a program to print process id of a process and its parent process id also. Execute the program three times and write its output.

[PNB + Viva – 20]
