MCA 2nd Semester Examination, 2023

MCA

(Advanced Operating System Lab.)

(Practical)

PAPER - MCA-297

Full Marks: 100

Time: 4 hours

The figures in the right hand margin indicate marks

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

Answer two questions selecting it by lucky draw: 35×2

- 1. How can you create a Zombie Process? Illustrate it using a program.
- 2. Write a shell program to find the reverse of a number.

- 3. Demonstrate using a program how can you duplicate a Program's Process using fork ().
- 4. Write a shell program to check a file is exist or not and if it is exist then display its type.
- 5. 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.
- 6. 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.
- 7. Implement FIFO page replacement algorithm using a shell program.
- 8. Write a shell program to check a string is palindrome or not.

- 9. Implement SJF CPU scheduling algorithm using a shell program.
- 10. Write a program to create a new process using system () that displays the processes running on your system.

Viva-voce -20 Marks

Laboratory Note Book - 10 Marks

Distribution of Marks

Program code : $2 \times 20 = 40$ Marks Execution of program : $2 \times 10 = 20$ Marks Results : $2 \times 5 = 10$ Marks Viva-voce : 20 Marks Laboratory Note Book : 10 Marks

Total : 100 Marks