



SNS COLLEGE OF ENGINEERING

Kurumbapalayam (Po), Coimbatore – 641 107

AN AUTONOMOUS INSTITUTION



Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

tem Overview

◆ Puzzle:

I am the brain of the computer but not the hardware. I manage tasks and resources, ensuring smooth operation. Without me, the computer would be a useless box. What am I?

Answer: Operating System

2. Objectives and Functions of OS

◆ Puzzle:

I act like a **traffic controller** for programs, ensuring no two processes collide while running. I allocate memory and CPU time efficiently, allowing multiple users to work together. Who am I?

Answer: Process Management

3. Evolution of Operating Systems

◆ Puzzle:

I was the first of my kind, handling only one task at a time. As technology improved, I gained the ability to multitask, support multiple users, and even become invisible to users. What am I?

Answer: Operating System Evolution (Single-tasking → Multi-tasking → Time-Sharing → Distributed OS)

4. Operating System Structures

◆ Puzzle:

I can be **monolithic, layered, or microkernel-based**.

I define how an OS is built and how components communicate. What am I?

Answer: OS Structure

5. Operating System Services

◆ Puzzle:

I allow you to **execute programs, manage files, and ensure security**.

Without me, users would struggle to interact with their system.

I am a set of functionalities provided by the OS. What am I?

6. User Operating System Interface

◆ **Puzzle:**

I can be **command-based, menu-driven, or graphical**.

I help users talk to the operating system in different ways.

Without me, you wouldn't know how to control the computer. What am I?

Answer: User Interface (CLI, GUI, Menu-driven Interface)

7. System Calls

◆ **Puzzle:**

I am the secret language between programs and the OS.

When a program needs to **read a file, allocate memory, or create a process**, it whispers my name.

What am I?

Answer: System Calls

8. System Programs

◆ **Puzzle:**

I am not part of the OS but help users interact with it.

I include **compilers, text editors, file managers, and debuggers**.

I provide utilities to make computing easier. What am I?

Answer: System Programs

9. Design and Implementation of OS

◆ **Puzzle:**

I am the **blueprint of an OS**, defining how components work together.

I am written in **C, C++, or assembly**, balancing efficiency and maintainability.

I determine whether the OS is **monolithic, modular, or layered**. What am I?

Answer: OS Design and Implementation

Riddle:

I am invisible but control everything.

I let programs run and make them sing.

I manage hardware, memory, and CPU,

Without me, your computer won't work for you!

What am I?

Answer: Operating System

2. Objectives and Functions of OS

◆ Puzzle:

Four friends (P, Q, R, and S) are running a race.

- **P** is in charge of scheduling who runs next.
 - **Q** keeps track of the energy (memory) used by each runner.
 - **R** ensures no one crashes into each other.
 - **S** helps them communicate with the audience (I/O).
- Together, they keep the race running smoothly.

Which OS functions do P, Q, R, and S represent?

Answer:

- **P** → **Process Management**
 - **Q** → **Memory Management**
 - **R** → **File System & Security**
 - **S** → **I/O Management**
-

3. Evolution of OS

◆ Riddle:

I started simple, just one job at a time.
Then I learned to share, which was quite fine.
With multiple users, I became wise,
Now I live in the cloud, beyond the skies!
What am I?

Answer: Evolution of Operating Systems (Single-tasking → Multi-tasking → Time-Sharing → Distributed OS → Cloud OS)