

CS405 Operating Systems – Unit 1 PYQ

Analysis (2022–2025)

Unit 1 Syllabus

- Functions of Operating System
 - Evolution of Operating System
 - Types of Operating System
 - Characteristics & Features of OS
 - Operating System Services
 - Utility Programs
 - System Calls
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Exact PYQs Related to Unit 1

Year	Question
June 2025	What are the five major activities of an operating system in regards to memory management?
June 2025	List the functions of OS. How operating system perform management task in a system?
Dec 2024	Explain the need for the Process Control Block (PCB) fields.
June 2024	In a multiprogramming and time-sharing environment several users share system simultaneously. What are two such problems?
June 2024	What are the benefits of mapping objects into virtual memory?
June 2023	Define an operating system. What are the goals of an operating system? Explain.

June 2023	What is meant by system call? How it can be used? How does an application program use these call during execution?
Nov 2023	Explain the evolution of operating system in detail.
Nov 2023	Explain the concept of buffering and spooling.
Nov 2022	Explain the different types of services in Operating System and its features.
Nov 2022	Define Utility programs with example. Explain system call.
June 2022	What are system calls? Explain different categories of system calls with examples.
June 2022	What are the functionalities of operating system? Explain in detail.

Topic-wise Mapping

1. Functions of Operating System

PYQs

- June 2025
 - List the functions of OS.
 - How operating system perform management task in a system?
- June 2022
 - What are the functionalities of operating system? Explain in detail.

Frequency

★★★ Repeated 2 Times

2. Evolution of Operating System

PYQs

- November 2023
 - Explain the evolution of operating system in detail.

Frequency

★★ Medium Important

3. Types of Operating System

PYQs

- November 2022
 - Explain the different types of services in Operating System and its features.
- June 2024
 - Multiprogramming and Time Sharing Environment question.

Frequency

★★ Medium Important

4. Characteristics and Features of OS

PYQs

- November 2022
 - Explain different types of services in OS and its features.
- June 2023
 - Goals of Operating System.

Frequency

★★★ Important

5. Operating System Services

PYQs

- November 2022
 - Explain different types of services in Operating System.
- June 2023
 - Goals and services of Operating System.

Frequency

★★★★ High

6. Utility Programs

PYQs

- November 2022
 - Define Utility Programs with example.

Frequency

★★

7. System Calls

PYQs

- June 2022
 - What are System Calls?
 - Explain categories of System Calls with examples.
- November 2022
 - Explain System Call.
- June 2023

- What is meant by System Call? How application programs use it?

Frequency

★★★★★ MOST REPEATED

Most Repeated Questions (Very Important)

1. System Calls ★★★★★

- What is System Call?
- Categories of System Calls with examples.
- How application programs use System Calls?

Appeared: 2022, 2022, 2023

2. Functions of Operating System ★★★★★

- Functions of OS.
- Functionalities of OS.

Appeared: 2022, 2025

3. Operating System Services ★★★★★

- Types of Operating System Services.
- OS Services and Features.

Appeared: 2022, 2023

4. Evolution of Operating System ★★★★★

- Explain evolution of OS in detail.

Appeared: 2023

5. Utility Programs ★★ ★

- Define Utility Programs with example.

Appeared: 2022
