

CS405 Operating Systems – Unit 5 PYQ

Analysis (2022–2025)

Unit 5 Syllabus

- Introduction to Network Operating System (NOS)
 - Distributed Operating System (DOS)
 - Multiprocessor Operating System
 - UNIX / Linux Operating System
 - Windows Operating System
 - Contemporary Operating Systems
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Exact PYQs Related to Unit 5

Year	Question
June 2025	Explain Process Migration in Distributed Operating System.
June 2025	Explain Distributed System Design Issues.
Dec 2024	Explain Distributed Operating System and its advantages.
Dec 2024	Explain Network Operating System with examples.
June 2024	Compare Distributed OS and Network OS.
June 2024	Explain Distributed System Failures.
Nov 2023	Explain Distributed Operating System Architecture.
Nov 2023	Explain Transparency in Distributed Operating System.

June 2023	Explain Linux File System Architecture.
June 2023	Explain UNIX Operating System Features.
Nov 2022	Explain file system used in Linux and Windows.
Nov 2022	Compare Linux and Windows Operating System.
June 2022	Explain Multiprocessor Operating System.
June 2022	Characteristics of Multiprocessor Operating System.
June 2022	Explain RPC (Remote Procedure Call).

Topic-wise PYQ Mapping

1. Network Operating System (NOS)

PYQs

Dec 2024

- Explain Network Operating System with examples.

June 2024

- Compare Network OS and Distributed OS.

Frequency



2. Distributed Operating System

PYQs

Dec 2024

- Explain Distributed Operating System and its advantages.

Nov 2023

- Explain Distributed OS Architecture.

June 2024

- Compare Distributed OS and Network OS.

Frequency

★★★★★ MOST REPEATED

3. Multiprocessor Operating System

PYQs

June 2022

- Explain Multiprocessor Operating System.

June 2022

- Characteristics of Multiprocessor Operating System.

Short Notes

- June 2022 Additional Page

Frequency



4. Distributed System Design Issues

PYQs

June 2025

- Explain Distributed System Design Issues.

Frequency



5. Process Migration

PYQs

June 2025

- Explain Process Migration.

Frequency



6. Distributed System Failures

PYQs

June 2024

- Explain Distributed System Failures.

Frequency



7. Transparency in Distributed OS

PYQs

Nov 2023

- Explain Transparency in Distributed Operating System.

Frequency



8. RPC (Remote Procedure Call)

PYQs

June 2022

- Explain RPC.

Frequency



9. UNIX Operating System

PYQs

June 2023

- Explain UNIX Operating System Features.

Frequency



10. Linux Operating System

PYQs

June 2023

- Explain Linux File System Architecture.

Nov 2022

- Explain Linux File System.

Frequency



11. Windows Operating System

PYQs

Nov 2022

- Explain Windows File System.

Nov 2022

- Compare Linux and Windows Operating System.

Frequency



12. Contemporary Operating Systems

PYQs

Indirectly covered through:

- Linux
- Windows
- Distributed OS

Frequency



Most Repeated Questions

 **Distributed Operating System**

Appeared:

- Nov 2023
- June 2024
- Dec 2024
- June 2025

Questions:

- Define Distributed OS
 - Architecture
 - Advantages
 - Design Issues
-

Network Operating System

Appeared:

- June 2024
- Dec 2024

Questions:

- Define NOS
 - Compare NOS and DOS
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Multiprocessor Operating System

Appeared:

- June 2022

Questions:

- Characteristics
 - Advantages
 - Architecture
-

Linux Operating System

Appeared:

- Nov 2022
- June 2023

Questions:

- Linux File System
- Linux Architecture