

## **7 EASY (Q1–Q10)**

**Q1.** Linux is primarily classified as:

- A. Application software
- B. Programming language
- C. Operating system kernel
- D. Database system

**Q2.** Who originally developed the Linux kernel?

- A. Richard Stallman
- B. Linus Torvalds
- C. Dennis Ritchie
- D. Ken Thompson

**Q3.** Linux is distributed under which license?

- A. MIT
- B. BSD
- C. GPL
- D. Apache

**Q4.** Which component of Linux interacts directly with hardware?

- A. Shell
- B. File system
- C. Kernel
- D. User applications

**Q5.** Linux is best known for which characteristic?

- A. Closed source
- B. Vendor lock-in
- C. Open source
- D. GUI dependency

**Q6.** Which term refers to different Linux distributions?

- A. Flavors
- B. Forks
- C. Distros
- D. Versions

**Q7.** Which is an example of a Linux distribution?

- A. Windows
- B. Solaris
- C. Ubuntu
- D. MS-DOS

**Q8.** Linux supports which type of multitasking?

- A. Cooperative

- B. Preemptive
- C. Single-tasking
- D. Batch only

**Q9.** Which interface allows users to interact using commands?

- A. GUI
- B. Kernel
- C. CLI
- D. BIOS

**Q10.** Linux was initially developed for which architecture?

- A. ARM
- B. PowerPC
- C. x86
- D. SPARC

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## ☐ **MEDIUM (Q11–Q25)**

**Q11.** Which philosophy strongly influenced Linux development?

- A. Monolithic design
- B. Proprietary control
- C. Small tools doing one job well
- D. GUI-first approach

**Q12.** Which layer sits between hardware and applications in Linux?

- A. Shell
- B. Kernel
- C. File system
- D. BIOS

**Q13.** Which feature allows multiple users to work simultaneously on Linux?

- A. Multi-boot
- B. Multi-threading
- C. Multi-user capability
- D. Virtual memory

**Q14.** Linux follows which file system structure philosophy?

- A. Drive-based
- B. Registry-based
- C. Hierarchical tree
- D. Flat file

**Q15.** Which of the following is NOT a core function of the Linux kernel?

- A. Process management

- B. Memory management
- C. Device management
- D. Text editing

**Q16.** Which command interpreter is commonly used in Linux?

- A. CMD
- B. PowerShell
- C. Bash
- D. Zsh only

**Q17.** Which Linux feature improves system reliability?

- A. Single-user mode only
- B. Modular kernel
- C. Fixed memory allocation
- D. Hard-coded drivers

**Q18.** Which environment variable defines the default shell?

- A. \$PATH
- B. \$HOME
- C. \$USER
- D. \$SHELL

**Q19.** Linux supports which type of file permissions?

- A. Owner only
- B. Owner and system
- C. User, group, others
- D. Admin and guest

**Q20.** Which organization maintains the Linux kernel today?

- A. GNU Foundation
- B. Linux Foundation
- C. Apache Foundation
- D. Red Hat

**Q21.** Linux is widely used in servers mainly because of:

- A. High licensing cost
- B. Stability and security
- C. GUI features
- D. Gaming support

**Q22.** Which Linux feature allows running multiple programs seemingly at once?

- A. Virtualization
- B. Multitasking
- C. Paging
- D. Spooling

**Q23.** Which type of OS is Linux?

- A. Real-time only
- B. Embedded only
- C. General-purpose
- D. Single-task

**Q24.** Which Linux component provides user interaction?

- A. Kernel
- B. Shell
- C. Loader
- D. Firmware

**Q25.** Linux kernel source code is written primarily in:

- A. Java
- B. Python
- C. C
- D. Assembly only

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## **HARD (Q26–Q40)**

**Q26.** Which design approach does the Linux kernel primarily follow?

- A. Microkernel
- B. Hybrid kernel
- C. Monolithic kernel
- D. Exokernel

**Q27.** Which statement best differentiates Linux from UNIX?

- A. Linux is proprietary
- B. UNIX is open source
- C. Linux is UNIX-like but not UNIX
- D. UNIX has no kernel

**Q28.** Which kernel feature allows dynamic loading of drivers?

- A. Kernel threads
- B. Loadable Kernel Modules
- C. Virtual memory
- D. Swap space

**Q29.** In Linux architecture, which layer provides system calls?

- A. Shell
- B. Application layer
- C. Kernel
- D. Hardware layer

**Q30.** Which scheduling approach is used by modern Linux kernels?

- A. Round-robin only
- B. First-come-first-serve
- C. Completely Fair Scheduler
- D. Priority-only scheduling

**Q31.** Which Linux capability enhances fault isolation?

- A. Static linking
- B. Process isolation
- C. Single address space
- D. Fixed memory blocks

**Q32.** Which Linux feature enables running different OS environments?

- A. Paging
- B. Multitasking
- C. Virtualization
- D. Spooling

**Q33.** Why is Linux preferred in embedded systems?

- A. Heavy GUI support
- B. Customizable kernel
- C. High hardware requirements
- D. Proprietary drivers

**Q34.** Which Linux concept ensures programs cannot access each other's memory?

- A. Swapping
- B. Paging
- C. Memory protection
- D. Caching

**Q35.** Which subsystem handles hardware abstraction in Linux?

- A. Shell
- B. HAL/Kernel drivers
- C. User space
- D. File system

**Q36.** Which Linux feature supports scalability from mobile to supercomputers?

- A. Fixed kernel size
- B. Modular architecture
- C. Single-thread execution
- D. Hard-coded resources

**Q37.** Linux kernel updates are typically managed using:

- A. BIOS upgrades
- B. Firmware flashing

- C. Package managers
- D. Shell scripts only

**Q38.** Which Linux characteristic improves security posture?

- A. Open ports by default
- B. Mandatory root usage
- C. Permission-based access control
- D. GUI-only administration

**Q39.** Which factor most contributed to Linux's enterprise adoption?

- A. Gaming support
- B. Free licensing & stability
- C. Proprietary drivers
- D. Desktop focus

**Q40.** Linux is considered "open source" because:

- A. It runs on open hardware
- B. Source code is publicly available
- C. Anyone can modify binaries only
- D. It has no copyright