

Operating System

Chapter 1

MCQ



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1- What is operating system?

- a) collection of programs that manages hardware resources
- b) system service provider to the application programs
- c) link to interface the hardware and application programs
- d) all of the mentioned

2- To access the services of operating system, the interface is provided by the

- a) System calls
- b) API
- c) Library
- d) Assembly instructions

3- Which one of the following is not true?

- a) kernel is the program that constitutes the central core of the operating system
- b) kernel is the first part of operating system to load into memory during booting
- c) kernel is made of various modules which cannot be loaded in running operating system
- d) kernel remains in the memory during the entire computer session

4- Which one of the following error will be handle by the operating system?

- a) power failure
- b) lack of paper in printer
- c) connection failure in the network
- d) all of the mentioned

5- The main function of the command interpreter is

- a) to get and execute the next user-specified command
- b) to provide the interface between the API and application program
- c) to handle the files in operating system
- d) none of the mentioned

6- By operating system, the resource management can be done via

- a) time division multiplexing
- b) space division multiplexing
- c) both time and space division multiplexing
- d) none of the mentioned

7- Which one of the following is not a real time operating system?

- a) VxWorks
- b) Windows CE
- c) RTLinux
- d) Palm OS

8- The OS X has _____

- a) monolithic kernel
- b) hybrid kernel
- c) microkernel
- d) monolithic kernel with modules

9- mash operating system uses

- a) simple OS structure
- b) microkernel structure
- c) layered structure

- 10- OS family of android is
 a) Linux b) Unix c) Windows
- 11- Android OS is an example of
 a) module systems b) hybrid systems c) layered systems
- 12- OS family of ios is
 a) Linux b) Unix c) Windows
- 13- Solaris operating system uses
 a) module structure b) microkernel structure c) layered structure
- 14- In ----- structure it is easier to port OS to new architecture
 a) Microkernel b) Layered
 c) Simple d) Modules
- 15- In -----, threads are slow and inefficient
 a) KLT b) ULT c) LWP d) Nothing
- 16- Which of the following instructions should be allowed only in the user mode in a multi-user system
 a) Disable all interrupts b) Read the time-of-day clock
 c) Set the time-of-day clock d) Send a character to the printer
- 17- Which of the following instructions should be allowed only in the kernel mode in a multi-user system? Briefly justify.
 (a) Disable all interrupts. (b) Read the time-of-day clock.
 (c) Set the time-of-day clock.
 (d) Send a character to the a printer device controller for printing.
(e) A,C,D
- 18- Operating system operations are
 a) interrupt and trap b) dual mode and timer
 c) information management and communication
- 19- ----- support multiple user processes but only support one thread per process
 a) Linux b) Solaris c) Unix

20- When an interrupt occurs, an operating system

(A) ignores the interrupt

(B) always changes state of interrupted process to 'blocked' and schedules another process

(C) always resumes execution of interrupted process after processing the interrupt

(D) may change the state of interrupted process to 'blocked' and schedule another process

21- ----- is a small computer that fits in a shirt pocket and perform a small number of functions

a) Embedded systems

b) Handheld

c) Sensor

22- In -----, if a program crashes, the entire system will be halted

a) User mode

b) Kernel mode

c) Device management

23- ----- is a software-generated problem caused either by an error or user request

a) A trap

b) An interrupt

c) User mode

24- Wait event is ----- system call

a) Process control

b) File management

c) Device management

25- Performance overhead of user space to kernel space communication is disadvantage of ----- structure

a) Module

b) Microkernel

c) Simple