

Choose one answer. *

Which operating system structure(s) allow(s) direct communication among all operating system services?

- ☐ Layered approach
- ☐ Microkernel approach
- ☒ Modular approach
- ☐ All of the above

Choose one answer. *

Which of the following programs runs all the time on the computer?

- ☐ compiler
- ☐ assembler
- ☐ text editor
- ☒ kernel

An operating system can be viewed as a resource allocator because:

- ☐ it acts as the manager of system resources.
- ☐ it must decide how to allocate system resources to specific programs and users.
- ☐ it must use system resources efficiently and fairly.
- ☒ All of the above.

Choose one answer. *

The major difficulty in designing an operating system using the layered approach is _____.

- ☒ Appropriately defining the various layers
- ☐ Making sure that each layer hides certain data structures, hardware, and operations from higher-level layers
- ☐ Debugging a particular layer
- ☐ Making sure each layer is easily converted to modules

Indicate whether each statement is True or False. *

One advantage of implementing commands through system programs is that the command interpreter program does not have to be changed for new commands to be added.

☒ True

☐ False

Indicate whether each statement is True or False. *

Division by zero is an error that causes a software interrupt (or Trap).

☒ True

☐ False

Indicate whether each statement is True or False. *

Every multiprogramming system is also a time-sharing system.

☐ True

☒ False

↓
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Choose one answer. *

_____ operating systems are designed primarily to maximize resource utilization.

☐ PC

☐ Handheld computer

☒ Mainframe

☐ Network

↓
برگزین کاربر
user

Choose one answer. *

The advantage(s) of using a higher-level language for implementing operating systems is(are):

- ☐ The code can be written faster
- ☐ The code is easier to understand and debug
- ☐ The operating system is easier to port to other hardware
- ☒ All of the above

Indicate whether each statement is True or False. *

Interrupt Vector contains the addresses of all the service routines.

- ☒ True
- ☐ False

Indicate whether each statement is True or False. *

using API

Using system calls [↑] directly in your program guarantees portability of your code.

☐ True

☒ False

Note
بہت استعمال
API کا ہے
Mac OS
لینکس
Windows
غیر ہے

Indicate whether each statement is True or False. *

The functions that make up an API typically invoke actual system calls on behalf of the application programmer.

☒ True

☐ False

Indicate whether each statement is True or False. *

During the execution of a system call, the mode is changed from kernel mode to user mode.

☐ True

☒ False

Choose one answer. *

The three general methods used to pass system call parameters to the operating system are ____.

☐ Shared memory, message passing, or buffers

☐ Open, close, or abort

☒ Registers, memory block, or stack

☐ None of the above

Choose one answer. *

_____ is a translator between the operating system and applications that use the I/O devices that converts general I/O instructions into device specific operations:

- ☐ Compilers.
- ☒ The device drivers.
- ☐ The device controller.
- ☐ Interrupt Vector.