https://selldocx.com/products

/operating-systems-internals-9th-global-edition-test-bank-with-key-by-stallings Operating Systems: Internals and Design Principles, 9th Edition, GE Testbank Chapter 2

Chapter 2 – Operating System Overview

TRUE/FALSE QUESTIONS:

T	F	1) An OS should be constructed in such a way as to permit the effective development, testing, and introduction of new system functions without interfering with service.
T	F	2) The OS masks the details of the hardware from the programmer and provides the programmer with a convenient interface for using the system.
T	F	3) The ABI gives a program access to the hardware resources and services available in a system through the user ISA.
T	F	4) The OS frequently relinquishes control and must depend on the processor to allow it to regain control.
T	F	5) One of the driving forces in operating system evolution is advancement in the underlying hardware technology.
T	F	6) The processor itself is not a resource so the OS is not involved in determining how much of the processor time is devoted to the execution of a user program.
T	F	7) A process consists of three components: an executable program, the associated data needed by the program, and the execution context of the program.
T	F	8) Uniprogramming typically provides better utilization of system resources than multiprogramming.
T	F	9) A monolithic kernel is implemented as a single process with all elements sharing the same address space.
T	F	10) The user has direct access to the processor with a batch-processing type of OS.
T	F	11) Both batch processing and time-sharing use multiprogramming.
T	F	12) The phrase "control is passed to a job" means that the processor is now fetching and executing instructions from the monitor program.
T	F	13) In a time-sharing system, a user's program is preempted at regular intervals, but due to relatively slow human reaction time this occurrence is usually transparent to the user.

1	F	14) The principle object	tive of Batch Multiprogramming is to minimize response tim
Т	F		nology enables a single PC or server to simultaneously run
		multiple operating	s systems or multiple sessions of a single OS.
MUL	TIPLE C	HOICE QUESTIONS:	
1) The	e	is the interface that is	s the boundary between hardware and software.
		A) ABI	B) ISA
		C) IAS	D) API
	•	is a set of resources of these functions.	for the movement, storage, and processing of data and for
		A) architecture	B) program
		C) computer	D) application
	-	ng system's re	efers to its inherent flexibility in permitting functional interfering with service.
		A) efficiency	B) ability to evolve
		C) controlled access	D) convenience
4) Op	erating s	ystems must evolve over	time because:
	A)) new hardware is design	ed and implemented in the computer system
	В)	hardware must be replac	ced when it fails
	C)	hardware is hierarchical	
	D)) users will only purchase	e software that has a current copyright date

5) A special ty		uage used to provide instructions to the monitor
	A) FPL	B) JCL
	C) DML	D) SML
	features desirable in a bat , timer, privileged instruc	tch-processing operating system include memory ctions, and
	A) clock cycles	B) associated data
	C) interrupts	D) kernels
		, in which certain areas of memory are protected rtain instructions may not be executed.
	A) kernel mode	B) user mode
	C) task mode	D) batch mode
	ramming operating syster systems.	ns are fairly sophisticated compared to single-program
	A) uniprogramming	B) time-sharing
	C) multitasking	D) memory management
9) One of the	first time-sharing operati	ng systems to be developed was the
A	A) Compatible Time-Shari	ng System B) Real Time Transaction System
C	C) Multiple-Access System	D) Multiprogramming Operation System
	-	k generates interrupts, and at each clock interrupt the OS ocessor to another user, is
	A) time slicing	B) multithreading
	C) round robin	D) clock cycle

11) The	is the internal data by which	h the OS is able	to supervise and control the process.
	A) executable program B) asso	ociated data	
	C) nucleus	D) execution of	context
	is where the OS must prevent ir s memory, both data and instructions		cesses from interfering with each
	A) Support of modular programming		B) Process isolation
	C) Automatic allocation and manag	gement	D) Protection and access control
	is concerned with the proper vessages or data.	rification of the	identity of users and the validity
	A) Availability	B) Confidentia	ality
	C) Authenticity	D) Data integr	rity
•	amon strategy to give each process in technique.	the queue some	time in turn is referred to as
	A) multithreading	B) round-robi	n
	C) time slicing	D) serial proce	essing
	ey to the success of Linux has been its r the auspice of the	character as a fi	ee software package available
	A) World Wide Web Consortium	B) Fre	e Software Foundation
	C) Berkeley Software Distribution	D) GN	NU Public License
SHORT A	ANSWER QUESTIONS:		
	is a program that controls as an interface between applications		
	e portion of the monitor that is always referred to as the	s in main memo	ry and available for execution

Copyright © 2018 Pearson Education, Ltd.

	is a technique in which a process, executing an application, is divided into
thi	reads that can run concurrently.
4) Tw	o major problems with early serial processing systems were scheduling and
	e central idea behind the simple batch-processing scheme is the use of a piece of software nown as the
	y resource allocation and scheduling policy must consider three factors: Fairness, ifferential responsiveness, and
	is set at the beginning of each job to prevent any single job from onopolizing the system.
all	e OS has five principal storage management responsibilities: process isolation, automatic ocation and management, support of modular programming, protection and access control, d
	e earliest computers employed processing, a name derived by the way the users are access to the systems.
	was designed to keep the processor and I/O devices, including storage devices, multaneously busy to achieve maximum efficiency.
	a time-sharing, multiprogramming system, multiple users simultaneously access the ystem through
12) Tl	ne principal objective of is to maximize processor use.
s	hree major lines of computer system development created problems in timing and ynchronization that contributed to the development of the concept of the process: nultiprogramming batch operation, time sharing, and
	is a facility that allows programs to address memory from a logical point of iew, without regard to the amount of main memory physically available.
	ecurity and protection as it relates to operating systems is grouped into four categories: vailability, Data integrity, Authenticity, and