

Operating System

Revision 3



1 is to decrease the time in which the reso	ource is idle.
Resource sharing <u>resource utilization</u> resou	rce speedup resource protection
2. In, when a running process waits for an I	O operation, the operating system selects another
for execution.	
Real-time systems time-sharing I/O bound sy	stems <u>multi-programming systems</u>
3. In, the CPU executes multiple jobs by sw	ritching among them so frequently.
Multiprogramming <u>time-sharing</u> boot l	oader CPU scheduling
4. A receives requests from the client system	ns, execute actions on the server and send results
back to clients.	
Multicore system file-server system real-t	ime system <u>compute-server system</u>
5. The is responsible for moving the data	between its local buffer storage and the I/O device
it controls.	
System bus <u>device controller</u>	
6. In dual mode operation, user processes execute i	
Free mode <u>user mode</u> kerne	l mode privilege mode
7. Constructing the operating system using the	approach results in poor system performance
Monolithic hybrid microkernel	layered
8. The provides an interface to the se	
Dispatcher <u>system call</u>	interrupt vector kernel
9. The is a segment of code that determ	nines what action should be taken when an
interrupt occur.	
Interrupt service routine	interrupt vector
Interrupt signal	trap
10. A system can have only one job (p	
<u>Batch</u> multiprogramming	multitasking timesharing
11. The content of can be changed but r	
RAM ROM <u>EEPROM</u>	registers
12. The OS must ensure correct computing by detec	
	rogram requests a service from the kernel of the OS.
1	n software source code
14. Device controllers provide an interface to the se	and the first of the second se
15. A device local buffer is a program in execution.	500XL
 The microkernel approach removes nonessential system programs. <u>T</u>/F 	l component from kernel and implement them as
17. The bootstrap program is responsible for locating	ng the kernel. T/F
18. In clustering, two or more nodes ar	
Client-server hot-stand-by	approximation and monitoring coon other
	symmetric asymmetric
	symmetric <u>asymmetric</u>

19.	Clustered systems are also known	as systems.		
	Distributed <u>loosely couple</u>	<u>ed</u> tightly	coupled	clustered
20.	A cloud server provider have thou	sands of physical servers run	ning millions of virtual	machines. <u>T</u> /F
21.	The OS provide application progra	mmers with API to invoke ser	vices. <u>T</u> /F	
22.	Most operating systems do no add	opt a single, strictly defined st	ructure but rather the	y usually use a
	<u> </u>			
	Monolithic approach	hybrid approach	microkernel approac	h
	layered approach			
23.	A system is a collection o	f physically separate compute	er systems that are net	tworked
	together.			
	<u>Distributed</u> multiprocesso	r batch	clustered	
24.	The operating system consists of a	kernel and a set of application	on programs. <u>T</u> /F	
25.	Fault tolerant systems can continu	ue operating despite of failure	es. <u>T</u> /F	
26.	Using the makes it	is difficult to define the funct	ionality of each layer.	
	Monolithic approach	hybrid approach	microkernel approac	h
	layered approach			
27.	A batch system has the advantage	of high CPU utilization. T/\underline{F}		
28.	system calls support i	request device, release device	e, read, write and repo	sition
	operations.			
	Device management	Information n	naintenance	
	File management	process control		
29.	system calls support of	create, load, execute, termina	ate and abort operatio	ns.
	Device management	Information n	naintenance	
	File management	process control		
30.	A special purpose processor suppo	orts a limited instruction set.	<u>T</u> /F	
31.	The CPU can load instructions only	/ from		
	Tap drive registers	Main memory	hard disk drive	
32.	System boot is the process of start	ting a computer by loading th	e kernel. <u>T</u> /F	
33.	The operating system should be as	ware of the errors that may o	ccur in the system and	l take actions
	to handle them. <u>T</u> /F			
34.	system calls support g	get time date and set time da	te operations.	
	Device management	Information n	<u>naintenance</u>	
	File management	process control		
35.	User mode has a undirect access t	o computer resources. <u>T</u> /F		
36.	The OS must provide processes wi	th some means to perform I/	O. <u>T</u> /F	
37.	The operating system ensure that	all access to system resource	s is controlled. <u>T</u> /F	

38.	8 system calls support send message, receive message and transfer status information				
	operations.				
	Device management	Inform	ation maintenanc	е	
	File management	Communication	<u>on</u>		
39.	refers to the use of high sp	peed memory to ho	old a copy of recer	ntly accessed	data.
	Booting <u>Cad</u>	ching	Fetching		Speedup
40.	Some system calls require passing the	parameters in the	CPU registers. <u>T</u> /	F	
41.	Using the makes the O	S difficult to imple	ment and extend.		
	Monolithic approach hybrid app	roach microke	rnel approach lay	ered approa	ich
42.	allows device controller t	o transfer data dire	ectly between its l	local buffer a	ind main
	memory.				
	<u>DMA</u> EEPROM RA		ROM		
43.	Using the allows the OS t	o link in additional	services via LKMs	, either at bo	ot time or at
	run time.		988 × 040		
	modules approach hybrid app		microkernel appr	oach	none
44.	Multiprocessor systems are also know				
	Distributed loosely coupled		tightly coupled		clustered
	45. Some system calls require passing the parameters onto the stack by the process. <u>T</u> /F				
	46. Mobile computing refers to the use of handheld smartphones and tablet computers. <u>T</u> /F				
47.	47. The operating system allows processes to exchange information between computers over a				
40	network. T/F				
	48. A multicore system is less efficient than multiple chips with single cores. T/F				
	An interrupt is a signal that is generat	A CONTRACTOR OF THE PARTY OF TH	nt occurs. 1/F		
50.	Application programs run in				
-4	<u>User</u> kernel	system	privilege		
51.	Which of the following is related to re	15 NO.	FRI Name Addition	~	
	Execution of programs concurrently		time as key paran	<u>neter</u>	
	Serving several users at a time	none o			
52.	Which of the following is not the func	•			
	Memory management	CPU managem			
	I/O and file management	debugging pro			
53.	A process shares data with other				
	Batch independe		cooperating	interact	tive
54.	Privilege instruction can execute only				
	Application <u>User</u>	Kernel		mmetric	
55.	provide user authen	tication and exten	d to defending ext	ternal I/O de	vices from
	invalid access attempts.				

Involves ensuring that all access to system resources is controlled. Protection Security Privacy None of all		Protection	security		privacy	none of all	
57. In	56.	involves	ensuring that	all access to sy	stem resources is con	trolled.	
User mode kernel mode device management none of all 58. In		Protection	security		privacy	none of all	
58. In	57.	In if a	a program crasł	nes, the entire	system will be halted.	ř	
User mode kernel mode device management none of all 59. the components of computer system include		User mode	kernel mode	device	management	none of all	
59. the components of computer system include————————————————————————————————————	58.	In if a	a program crasł	nes, only that p	orogram will be halted		
Hardware Operating system Application programs All 60. Operating system is a		<u>User mode</u>	kernel mode	device	management	none of all	
60. Operating system is a	59.	the components of	computer syste	em include			
Software hardware peripheral device other 61. Kernel is a program which is running While the program is executing at all times on the computer. Only at startup Other 62. Operating system is a Collection of programs that		Hardware Operat	ing system	Applica	ation programs	<u>All</u>	
61. Kernel is a program which is running While the program is executing Only at startup Other 62. Operating system is a Collection of programs that Control the application software. Link between the hardware and software. Manage resources shared between simultaneous programs. All of the above 63 is a Programming interface to the services provided by the OS. API System call Functions other 64. System call is accessed by	60.	Operating system is	a	<u>=</u> 2			
While the program is executing Only at startup Other 62. Operating system is a Collection of programs that Control the application software. Link between the hardware and software. Manage resources shared between simultaneous programs. All of the above 63		<u>Software</u>	hardware	periph	eral device	other	
Only at startup Other 62. Operating system is a Collection of programs that Control the application software. Link between the hardware and software. Manage resources shared between simultaneous programs. All of the above 63 is a Programming interface to the services provided by the OS. API System call Functions other 64. System call is accessed by	61.	Kernel is a program	which is runnir	ng			
62. Operating system is a Collection of programs that Control the application software. Link between the hardware and software. Manage resources shared between simultaneous programs. All of the above 63 is a Programming interface to the services provided by the OS. API System call Functions other 64. System call is accessed by		While the program	is executing		at all times on the co	mputer.	
Control the application software. Link between the hardware and software. Manage resources shared between simultaneous programs. All of the above 63 is a Programming interface to the services provided by the OS. API System call Functions other 64. System call is accessed by API System call Functions other 65. System calls are written in		Only at startup			Other		
Link between the hardware and software. Manage resources shared between simultaneous programs. All of the above 63 is a Programming interface to the services provided by the OS. API System call Functions other 64. System call is accessed by API System call Functions other 65. System calls are written in	62.	Operating system is	a Collection of	programs tha	t		
Manage resources shared between simultaneous programs. All of the above 63 is a Programming interface to the services provided by the OS. API System call Functions other 64. System call is accessed by API System call Functions other 65. System calls are written in		Control the applicat	tion software.		,		
All of the above 63 is a Programming interface to the services provided by the OS. API System call Functions other 64. System call is accessed by API System call Functions other 65. System calls are written in		Link between the h	ardware and so	ftware.			
63is a Programming interface to the services provided by the OS. API System call Functions other 64. System call is accessed by		Manage resources	shared betweer	n simultaneous	s programs.		
API System call is accessed by		A					
64. System call is accessed by API System call Functions other 65. System calls are written in	63.	is a Pro	gramming inter	face to the ser	vices provided by the	OS.	
API System call Functions other 65. System calls are written in		API	System call		Functions		other
65. System calls are written in language. C and C++ C# and C++ swift other 66. Modern OSs are operating systems. Not interrupt driven Interrupt driven	64.	System call is acces	sed by	-			
<u>C and C++</u> C# and C++ swift other 66. Modern OSs are operating systems. Not interrupt driven <u>Interrupt driven</u>		<u>API</u>	System call		Functions		other
66. Modern OSs are operating systems. Not interrupt driven Interrupt driven	65.	System calls are wr	itten in	langua	ge.		
Not interrupt driven <u>Interrupt driven</u>						other	
	66.	Modern OSs are	ор	erating system	is.		
67. is a software-generated problem caused either by an error or user request		F8					
	67.	is a softw		problem cause		r user request	
A trap An interrupt User mode		<u>A trap</u>	An interrupt		User mode		
68 is something generated by the hardware device and they don't happen at predictable	68.		100 E	d by the hardw	are device and they d	on't happen at	predictable
places in the user code.		52 53		A220		93	
<u>Interrupt</u> Event other	1	06 - 0.5 - 7.0 - 55-50 - 55-50 - 55				other	
69. Operating system run in	69.						
	(Christian)	74			5 A	dual mode	
<u>kernel mode</u> user mode dual mode	70.				ode is	r ar v	
kernel mode user mode dual mode 70. If mode bit is 0, that indicates that the current mode is	74				ouro so	dual mode	
kernel mode user mode dual mode 70. If mode bit is 0, that indicates that the current mode is	/1.	if mode bit is 1, tha	t indicates that	tne current m	oae is		
	(Carting)	74			9 5	duai mode	
<u>kernel mode</u> user mode dual mode	, 0.					dual mode	
kernel mode user mode dual mode 70. If mode bit is 0, that indicates that the current mode is	71.				ode is		
kernel mode user mode dual mode 70. If mode bit is 0, that indicates that the current mode is		The state of the					

	kernel mode	<u>user r</u>	<u>mode</u>		dual mode	
72.	is used to	prevent a user p	rogram from ge	etting stuck in a	an infinite loop	or not calling
	system services and ne					
	Event	interrupt		<u>timer</u>	trap	
73.	can be set to interrupt	the computer aft	er a specified po	eriod.		
	Event	Interrupt	Timer		Trap	
74.	In clustering,	, if the active serv	er fails, the hot	standby node	become the a	ctive server.
	Symmetric pee	er-to-peer	client-server	asymi	<u>metric</u>	
	In multiprotask.	ocessing, all proce	essors are peers	where each p	rocessor can p	erform any
	<u>Symmetric</u> pee	er-to-peer	client-server	asymi	metric	
76.	The is store	d in low memory	and holds the a	ddresses of th	e interrupt ha	ndlers.
	Trap <u>inte</u>	errupt vector		interrupt serv	vice routine	system call
77.	In multiprocessor syste	m, the speedup r	atio with N prod	cessors is	N.	
	<u>Less than</u> mo	re than	equal to	divide	e by	
78.	In cloud computing, a _	cloud is	available to any	yone via the In	ternet.	
	Private	<u>public</u>	hybrid		restricted	
79.	clustering	supports high per	rformance com	outing.		
	Hot-stand-by	asymmetric	symm	etric	clien	t-server
80.	The define the	ne ways in which	computer resou	rces are used	to solve users'	computing
	problems.					
	Hardware	Application p	orograms.	Interrupt	None	e of all
81.	The operating system of	an be viewed as a	a as it	acts as the ma	anager of reso	urces and
	decides how to allocate	them to specific	programs and	users.		
	Control program	Resource allo	ocator	Resource bin	ding None	e of all
82.	The operating system of		a as it	controls the I	O devices and	d manages the
	execution of programs.					
	Control program	Resource allo		Resource bin	100.00.00.00.00.00.00.00.00.00.00.00.00.	e of all
83.	System programs are a	ssociated with the	e operating syst	em but are no	t necessarily p	art of the
1274	kernel. <u>T</u> /F			- 1924 Proportional Habrida Control Habro - Tale		
84.	A modern general-purp controllers connected t	701 MILES			CPU s and a nu	imber of device
	Device driver	<u>Bus</u>	Contro	oller	None	e of all
85.	In modern computers, memory. <u>T</u> /F	a common bus pr	ovides access b	etween device	controllers a	nd a shred
86.	Each device controller i	is in charge of all	types of devices	. Т/ <u>Е</u>		
87.	The CPU and the device	e controllers can e	execute in paral	lel. <u>T</u> /F		
			B.	SEAS		

88.	A memory controller synch	ronizes access to the	memory. <u>T</u> /F	
89.	A program is a s	imple program that ru	ns when the computer	r is powered up or rebooted.
	RAM	ROM	<u>Bootstrap</u>	Trap
90.	Bootstrap program is store	ed in ROM or EEPROM.	. <u>T</u> /F	
91.	Bootstrap program is calle	d as it store	d in ROM.	
	Software	Hardware	<u>Firmware</u>	None of all
92.	Bootstrap program initializ	es all aspects of the sy	/stem. <u>T</u> /F	
93.	The software program loca	ites the operating syst	em kernel, loads it into	o memory, and starts its
	execution. T/ <u>F</u>			
94.	155 VITA V	ccurrence of an event	is signaled by an interi	rupt from the hardware only.
	T/ <u>F</u>			
95.	A hardware-generated into	errupt occurs by sendi	ng a signal to the CPU	by way of the
	system	ъ.		
	Controller	Driver	Bus	All mentioned
	A software-generated inte			
	A hardware generated into			request. T/ <u>F</u>
	All computer architectures			
99.				when the interrupt occurs.
	Interrupt vector		Interrupt simu	
100			as an index to obtain t	he address of the interrupt
101	service routine from the in			
101	er bei in dan de de dae de alle in de en de alle de en de de en de de en d De en de			execution to the
102	Interrupt trap	Interrupt handler	Interrupt Nun	
102				the interrupted process
103	Skips	Stops DRAM T/	<u>Resumes</u>	Ignores
	3. The main memory is impl	_		
	I. Secondary storage can be			aceho T/F
	6. When the CPU needs to a		- MACO - MODERN - MOD	cacne. <u>I</u> /F
	6. A copy of the same data of		===	is not asked increasing allowing
107	# 1785 \$1.50	1974 60 66	some data in a cache	is reflected immediately in
	other caches containing a C Cache memory		Cache cohere	ncy None of all
100	(25) a tradict sa en	Cache resuming	<u>Cache cohere</u>	none or an
	3. Cache coherency ensure		(1 . 1 .)	/c
	9. A device controller has a			
110	and its local buffer storage		a between the periph	eral devices that it controls
	Device driver	Device buffer	device controller	None of all
	Device an ive	23tics bullet	<u>astrice controller</u>	TOTIC OF UIT

111. Operating system	is have a device driver f	or each device controlle	r. <u>T</u> /F
112. Device controller	understands the device	and provides a uniform	interface to the device. \underline{T}/F
113. In I/O operation,	the device driver loads t	the appropriate registers	s within the device controller. \underline{T}/F
114. In I/O operation,	the device controller de	etermine its action based	on the contents of the
Cache	RAM	<u>Registers</u>	Buffer
115. In I/O operation,	once the transfer of dat	ta is complete, the device	e controller informs the device
driver via an			
DMA	Bus	Buffer	<u>Interrupt</u>
116. In I/O operation, operating system.	- AND-000	ta is complete, the device	e driver returns control to the
117. I/O operation is in			
		ng any amounts of data.	T/F
and the control of t	peration can produce les		171
			data directly from its buffer
	with no intervention b		ata directly from its bunci
Trap	Interrupt	DMA	Thread
1300 1300 130 TOOL	interrupt is generated		
1 Block	2 Blocks	1 Byte	2 Bytes
		ration to reduce the perf	**************************************
57 5-Mark (Ma) (M		complete instruction set	ACC-90120 COD
		ne special purpose regist	575000
0.551 SA		equivalent multiple sing	
More than	Less than	Equals	None of all
126. In multiprocessor	system, the failure of o	one processor will halt th	e system. T/F
127. Multiprocessor sy	stem increased reliabili	ity in many applications.	T/F
128. Multiprocessor sy	stem has the advantage	e of Graceful degradatio	n. T/F
			viding service proportional to the
level of surviving h	ardware.		
Fault tolerance	Graceful degra	dation Paging	Multithreading
130. Fault tolerant sys	tem requires a mechani	ism to allow the failure t	o be detected, diagnosed, and, if
possible, corrected	l. <u>T</u> /F		
131. Symmetric multip	processing defines a bos	s-worker relationship. T	7/ <u>F</u>
132. In, the l	ooss processor schedule	es and allocates work to	the worker processors.
symmetric multipre	ocessing	Asymmetric mult	tiprocessing
Asymmetric single-	-processing	symmetric single	-processing
133. Most common sy	stems use Symmetric m	nultiprocessing rather tha	an Asymmetric multiprocessing.

134. On-chip processor comm	nunication is slower tha	an between-chip proce	ssor communication. T/ <u>F</u>
135. One chip with multiple c	ores uses less power th	nan multiple single-cor	e chips. <u>T</u> /F
136. Multicore systems are m	ultiprocessor systems.	<u>T</u> /F	
137. All multiprocessor system	ns are multicore syster	ms. T/ <u>F</u>	
138. Clustered computers sha	are storage and are clo	sely linked via a	
MAN	WAN	Wifi	<u>LAN</u>
139. Clustering is usually used	d to provide high-availa	ability service. <u>T</u> /F	
140. In clustered system, serv	vice will not continue if	one or more nodes fai	I. Т/ <u>Е</u>
141. Clustered system provid	e high-performance co	mputing environments	. <u>T</u> /F
142. Clustered systems use _	technique to	enable application to	run concurrently on all
computers.			
Segmentation	Paging	Simultaneously	<u>Parallelization</u>
143. When the computer syst	tem is executing on bel	half of a user application	n, the system is in
mode.		7	
VMM	<u>User</u>	Kernel	None of all
144. When a user application		n the operating system	i, the system must transitior
from user to kernel mode			
145. At system boot time, the		mode.	
VMM	User	Kernel	None of all
146. Whenever an interrupt of			1035—(I)
147. Whenever the operating			100 -
148. The operation al	lows for protecting the	operating system from	n errant users-and errant
users from one another.		DNAA	Dool de
Trap	Interrupt	DMA	<u>Dual mode</u>
149. The hardware allows pri			22 - 32 - 32 - 32 - 32 - 32 - 32 - 32 -
VMM	User	<u>Kernel</u>	None of all
150. If an attempt is made to	execute a privileged in	istruction in user mode	, a traps is sent to the
operating system. <u>T</u> /F	ramant and intervient		rmed in kornel medde. T/C
151. I/O control, timer manag			19 89 89
152. VMM has more privilege	59 59		1.1—1.1 1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.
153. Timer ensures that the o			
154. In computer system, a ti	T0 55		8 - 26
155. We can use the timer to			
156. Instructions that modify			user mode. T/ <u>F</u>
157. In batch system, Process		=:	
158. In batch system, if the ruwaiting for the job. T/F	ınning job needs to wa	it for an I/O operation,	the CPU remains idle

- 159. In batch system, the user prepares a job using card punches and submits it to the operator. $\underline{\mathsf{T}}/\mathsf{F}$
- 160. In batch system, the system output consists of program results and a dump of final memory contents. <u>T</u>/F
- 161. The main task of the operating system in a mainframe system is to perform automatic job sequencing. T/\underline{F}
- 162. In batch system, there is no direct interaction between the user and the computer system. T/F
- 163. In desktop computers, OS focuses on achieving user convenience and responsiveness. T/F
- 164. In a multiprogramming system, several jobs are kept in main memory, and the CPU is multiplexed among them. <u>T</u>/F
- 165. Multiprogramming decreases CPU utilization. T/F
- 166. CPU scheduling allows for selecting a job for execution from the set of jobs residing in memory. <u>T</u>/F
- 167. Multiprogramming system has the advantage of increased CPU utilization than batch system. T/F
- 168. Multiprogramming system does not support direct interaction between the user and the computer system. <u>T</u>/F
- 169. Time-sharing (or multitasking) system is an extension of multiprogramming systems. T/F
- 170. A time-sharing system provides indirect communication between the user and the system. T/F
- 171. Distributed computing is the use of distributed systems to solve single large problems. T/F
- 172. A server system can be categorized as a computer server or a file server. T/F
- 173. In Peer-to-peer (P2P), all nodes are peer and cooperate together. T/F
- 174. In Peer-to-peer (P2P), each node may act as either a client or a server, depending on whether it is requesting or providing a service. T/F
- 175. Peer-to-peer system has the advantage of being able to provide the service by several nodes. T/F
- 176. In virtualization, the physical computer is referred to as host while the virtual machine is referred to as guest. <u>T</u>/F
- 177. In virtualization, the guest virtual machine has a separate guest operating system. T/F
- 178. Cloud computing is a type of computing that delivers computing, storage, and even applications as a service across a network. T/F
- 179. In cloud computing, Users pay based on how much resources they user. T/F
- 180. In cloud computing, public cloud is used only by the company owning it. T/F
- 181. In cloud computing, SAAS provides one or more applications available via the internet. T/F
- 182. In cloud computing, IAAS provides servers or storage available over the internet. T/F
- 183. Real-Time embedded operating system provide limited features with little or no user interface. T/F
- 184. A real-time system has well-defined, fixed time constraints. T/F
- 186. User processes can execute I/O operations directly. T/F

187. The operating system should enable	user processes to exchange i	nformation. <u>T</u> /F
188. The operating-system ensure correct	computing by detecting erro	ors in the CPU. <u>T</u> /F
189. When a user process executes a syst	em call, the system traps to t	he operating system. <u>T</u> /F
190. A monolithic structure places all of the that runs in a single address space. T/		into a single, static binary file
191. In monolithic structure, communicat	ion within the kernel is fast th	nus there is very little overhead.
<u>T</u> /F		
192. In layered approach, changes in one	component affect the others	. T/ <u>F</u>
193. In microkernel approach, new servic modification of the kernel. <u>T</u> /F	es can be added as system pr	ograms and do not require
194. In microkernel approach, it is difficul	t to extend the operating-sys	tem. T/ <u>F</u>
195. Microkernel approach provides more	e security and reliability. <u>T</u> /F	
196. In both modules and layered approa \underline{T}/F	ch, each kernel section has a	defined and protected interface
197. In modules approach, any module ca	n easily call any other modul	e. <u>T</u> /F
198. In modules approach, the primary m	odule has only core functions	. <u>T</u> /F
199. In modules approach, modules need	to use message passing to co	mmunicate. T/ <u>F</u>
200. Multiprogramming is the technique	of using multiple CPUs to run	programs. <u>T</u> /F
201. Batch processing implies a high level	of interaction between the u	ser and the program.
202. Real time systems are		
A. primarily used on mainframe comp	uters. <u>B. used for monit</u>	oring events as they occur.
C. used for program development.	D. used for real ti	me interactive users.
203. Kernel is considered as the critical pa	rt of the operating system.]	/F
204. Which of the following is not the fun	ction of Operating System?	
A. Process Management	B. Memory N	Management
C. Device Management	D. Clock Mar	nagement
205 operating system pays mor	e attention on the meeting of	the time limits.
A. Distributed. B. Networ	c. <u>C. Real time.</u>	D. Online.
206. In the method of data	transfer, the participation of	the processor is eliminated
during data transfer.		
A. buffering. B. caching	C. <u>direct memory</u>	access. D. indirect memory
access.		
207runs on computer hardware	and serve as platform for otl	ner software to run on.
A. Operating system.	B. Application software.	
C. System software.	D. Compiler.	
208. The Hardware mechanism that enab	177.V	is called
A. polling. B. <u>interrupt</u> .	C. system Call.	D. system request.

209. The ability to withstand equipment failures in indiverse referred to as	idual processors to continue operation is
A. fault tolerance. B. data flo	ow computer.
C. multiprocessor. D. array p	rocessor.
210. A kernel code that is executed in response to an in-	terrupt is
A. interrupt handler. B. interrupt vector.	C. interval timer. D. interrupting clock.
211. In a monolithic kernel, operating system runs in	
A User mode B <u>Supervisor mode</u> C User/su	pervisor mode D None of these
212. An operating system is :	
A Collection of hardware components	
B Collection of input-output devices	
C Collection of software routines	
D All the above	
213. Loading operating system from secondary memory	to primary memory is called
A Compiling B Booting C Refreshing D I	Reassembling
214. Multiprogramming means	
A Executing more than one program at a time	
B Ability to accommodate multiple tasks in main	memory
C Presence of multiple processors in one system	
D All the above	
215. To access the services of operating system, the inte	erface is provided by the
a) System calls b) API c) Library	d) Assembly instructions
216. Kernel is made of various modules which can not b	e loaded in running operating system. <u>T</u> /F
217. Which one of the following error will be handle by	the operating system?
	lack of paper in printer
c) connection failure in the network <u>d)</u>	all of the mentioned
218. The systems which allow only one process execution	on at a time, are called
a) uniprogramming systems	
b) uniprocessing systems	
c) unitasking systems	
d) none of the mentioned	
219. What is the degree of multiprogramming?	
a) the number of processes executed per unit time	
b) the number of processes in the ready queue	
 c) the number of processes in the I/O queue d) the number of processes in memory 	
220. What is the objective of multiprogramming?	
a) Have a process running at all time	
a, hare a process raining at an time	

b) Have multiple progra	ame waiting in a gr	ILALIA razdu to run		
c) To increase CPU utili:	i Arabani Shinisa ka Sali Araban Shinish ka S al i Sana da kamata — 10 1 m	ueue ready to ruii		
d) None of the mention	32			
221. The memory resident		ing system is called the	a	
A. Registry	B. API	C. CMOS	D. Kern	el
222. Which of the following			W.	<u>CI</u>
A. Main Memory		mory C. Cache men		d Only Memory
223. The primary purpose		(A) (A)	nory D. Reac	d Offig Wieffiory
E 1500 E	# 13E 13	stell is to.		
A. make computer easi				
B. keep system program		40000		
C. make the most effici		dware		
D. allow people to sue	the computers			
224. DMA is used for				
a) High speed devices (c	lisks and commun	ications network)		
b) Low speed devicesc) Utilizing CPU cycles				A.
d) All of the mentioned				
225. In an interrupt driven		CDII receives an intern	unt when the de	evice is ready for the
next byte. T/F	input/output the	CFO receives all litter	apt when the de	evice is ready for the
226. Which operation is pe	rformed by an inte	errupt handler?		
a) Saving the current st		errape namarerr		
b) Loading the interrup		nd executing it		
c) Once done handling,		- W	state it was bef	ore the interrupt
occurred				,
d) All of the mentioned				
227. CPU fetches the instru	iction from memo	ry according to the va	lue of	
a) program counter	b) status regis	ster c) instruction	register	
d) program status word				
228. A memory buffer used	d to accommodate	e a speed differential is	called	
a) stack pointer	b) <u>cache</u>	c) accumulator	d) disk buffer	
229. The main memory acc				
a) operating system	b) CPU	c) user processes	d) all of the me	entioned
230. A processor needs sof	tware interrupt to	obtain system service	es which need ex	ecution of privileged
instructions. <u>T</u> /F				
231. A set of extended inst	ructions providing	; an interface between	the Operating S	System and the user
programs, is called a				
(A) Machine call	(B) System ca	II (C) Instruction	n call	(D) Service call

222 4				
232. A controls th computer.	e execution of user p	rograms to prevent	errors and impr	oper use of the
(A) control program	(B) contribute pro	ogram (C) suppler	nent program	(D) supply program
233. The operating syst	em provides special i	routines called	to support the s	pecific behavior of
individual device.				
(A) Managers	(B) Programs	(C) Application	(D) Device d	rivers
234 is set of com	puter programs that i	run or control comp	uter hardware a	nd acts as an interface
between application	n programs and users	S.		
(A) The CPU	(B) An operating syst	<u>cem</u> (C) Object	code (D) A	compiler
235. When a interrupt and schedule anoth	10 15 1075	system may change	state of interrup	ted process to blocked
236. Symmetric multip	rocessing architecture	e of the computer sy	stem uses share	ed
a. bus	b. memory	c. processors	d. both a an	d b
237. In asymmetric clus	stering other machine	es perform operation	ns while one ma	chine is in
a. hot standby mod	e b. standby m	ode c. reset mo	ode d. ur	defined mode
238. Secondary memor	y of the computer sy	stem is also called		
a. non volatile	b. volatile	c. reserved	d. sn	nall
239. Environment in wl	hich programs of the	computer system ar	e executed is:	
a. operating system	b. nodes	c. clustered	d system d. bo	oth a and b
240. Clusters of the cor	mputer system can be	e used more efficien	tly using	
a. serialization	b. parallelizat	tion c. LAN	d. W	AN
241. A properly designe	ed operating system r	must ensure that an	incorrect (or ma	licious) program cannot
cause other program	ms to execute			
a. incorrectly	b. Correctly	c. both a a	nd b d. No	one
242. Table of pointers f	or interrupt to be exe	ecuted contains the		
a. interrupts	b. programs	c. <u>addresse</u>	<u>es</u> d. co	mpilers
243. The user view of t	he system depends u	pon the		
a. CPU	b. software	c. hardwar	e <u>d.in</u>	<u>terface</u>
244. Clustered compute	er systems are norma	Illy linked via		
a. LAN	b. WAN	c. PAN	d. TA	۸N
245. Multi-processor sy	stems of the comput	er system has advar	ntage of	
a. cost	b. <u>reliability</u>	c. uncertai	nty d. sc	alability
246. Each node in clust	ered system of the co	omputer system moi	nitors	
a. itself	b. One other	node c. neighbor	ring node <u>d. Or</u>	ne or more nodes
247. A bit that selects t	he mode of the opera	ating system is called	d	
a. kernel bit	b. user bit	c. <u>mode bi</u>	<u>t</u> d. sy	stem bit
248. More devices can	be connected to com	puter system throug	gh	

a. buffers	b. interrupt	c. registers	d. controllers	
249. System resources of computer system can be utilized better in multi program environment \underline{T}/F				
250. Static programs of the computer system are stored in				
a. RAM	b. <u>ROM</u>	c. hard disk	d. CD	
251. Secondary memory of the computer system is able to store				
a. program	b. data	c. instructions	d. both a and b	
252. Multiprocessor environment of the computer system uses				
a. parallel resource	es b. dedicated resou	rces <u>c. shared re</u>	sources d. both a and b	
253. A software may triggers an interrupt executing a special operation it is called as?				
a. System Call	b. Application Call	c. software	Call d. kernel call	
254. All components of computer system are connected through				
a. cache	b. registers	c. path	d. bus	
255. Symmetric multiprocessing in the computer system does not use				
a. master relationship		b. slave relationshi	b. slave relationship	
c. master slave relationship		d. serial processing		
256. System containing only one processor is called				
a. multiprocessor		b. single processor	b. single processor	
c. dual processor		d. specific processor		
257. Along with kernel, operating system also contains				
a. system application		b. software applica	b. software application	
c. hardware resources		d. both a and b		
258. Division by zero error are caused by				
a. user defined co	<u>de</u> b. OS code	c. process	d. interrupt	
259. Jobs of the computer system for execution are loaded into				
a. device	b. registers	c. <u>memory</u>	d. both a and b	
260. In symmetric multiprocessing system N number of CPU can run				
a. N-1 processes	b. N+1 processes	c. N processes	d. N-2 processes	
261. For avoiding programs of the operating system to get stuck, system users use				
a. trap	b. <u>timers</u>	c. process	d. programs	
262. Multiprocessing	provided by the computer sy	stem has a type of		
a. symmetric multiprocessor		b. asymmetric multiprocessing		
c. symmetric multiprocessing		d. both b and c	d. both b and c	
263. More than one processors system is called				
a. multiprocessor		b. single proce	o. single processor	
c. dual processo	or	d. specific pro	cessor	

264. Device controller is the controller of the computer system that contains

a. buffers

b. registers

c. cache

d. both a and b

