البيدولة الذي ياخذ فيها كل بو نامج عنز ه صعبورا من هيل ان ينزك الدور للبراسج الأخرى		
a.	Time-Sharing Scheduling	
b.	Priority Scheduling	
C.	Real-Time Scheduling	
d.	Batch Scheduling	

للوصول إلى البرامج الداخلية العائرمة	
	التعامل مغ ه
H.	memory
b.	hardware
C.	interrupt vector
d.	operating system

9.	Operating systems provide an environment for: ترفر نظم التشغول بينة مناسبة من أجل	
a,	execution of programs only.	
b.	execution of services to programs only.	
c.	execution of programs and services to programs and users.	
d.	none of the above.	

10,	Almost all operating systems have a User interface (UI) that may be: معظم نظم الشعبل ادبها واجهة للتفاحل مع المستخدم. هذه الراجهة قد تكون من نوع	
55.	command-line interface (CL1).	
b.	graphics user interface (GUI).	
6.	batch	
d.	all the above. كل ماسيق	

11.	One set of operating-system services provides functions that are helpful to the user:	
я,	read and write files and directories.	
b.	exchange information between processes	
c.	for each type of error, os should take the appropriate action	
4	all the above, deads it	

12.	A method used to pass parameters to the OS API: مدد إحدى الطرق المستخدمة لتمرير البيانات لأراض نظام الشغيل	
58.	pass the parameters in registers	
ь.	store parameters in a block, or table, in memory	
e.	place parameters, or pushed, onto the stack by the program and popped off the stack by the operating system	
d.	all of the above.	

13.	In the design and implementation of an operating system:
я.	mechanisms and policies are not considered as different concepts.
ь.	mechanisms and policies have the same concepts.
e.	mechanisms determine how to do something, policies decide what will be done.
d.	all the above.

14. Answer following statement using True (T) or False (F): [2 marks]	
Statement	Answer
a. Command Line Interface (CLI) or command interpreter allows direct command entry	1
b. When power initialized on system, execution starts at a fixed memory location in ROM used to	T
hold initial boot code	

6. Mari monem elecanid systems i	mplement loadable kernel modules	T
d. Internal structure of different oper		F
Question 2. [4 marks]		
	ructions should be privileged? Why?	
a) Set value of timer p Privileged	p Non-Privileged	
Deivilaged: If the near program	can directly change timer's values, a user program m	ay change th
ask adulias timos to take more tir	ne than in execution and increase its own quantum,	
seneduling timer to take more to	the train in execution and the contract of the	

b) Read the clock p Privileged	p Non-Privileged	
Non-Privileged, as there is no	consequences on the system if all applications acc	ess the cloc
e) Clear memory p Privileged	p Non-Privileged	
p Privileged		v areas that
p Privileged Privileged, because if allowed	to user applications, one application may clear memor	y areas that a
p Privileged	to user applications, one application may clear memor	y areas that
p Privileged Privileged, because if allowed	to user applications, one application may clear memor	y areas that
p Privileged Privileged, because if allowed eritical for the system or other p d) Switch from user to kerr p Privileged	to user applications, one application may clear memor programs' memory areas. nel mode p Non-Privileged	
Privileged, because if allowed critical for the system or other p d) Switch from user to kern p Privileged	to user applications, one application may clear memory programs' memory areas. nel mode p Non-Privileged	
Privileged, because if allowed critical for the system or other p d) Switch from user to kern p Privileged	to user applications, one application may clear memory programs' memory areas. nel mode p Non-Privileged	
p Privileged Privileged, because if allowed critical for the system or other p d) Switch from user to kern p Privileged Privileged, because only the key that to switch to kernel mode	to user applications, one application may clear memory programs' memory areas. nel mode p Non-Privileged ernel should be able to perform this switch. A user programs	am should ne

Page 3 of 5

war Warks: 20 perating Systems Partment Sciences Fall 2016-17 Midterm Exam I Date: 30-October-2016 Time: 6:30pm - 8:00n-Instruction .. Midterm 1 Exam 27-03-2017 gring Semester 2016-2017 CSC227 Question 2. [3 marks] 2.1 What is the difference between a trap and an interrupt? (1 Mark) interrupteis from hardware like (mouse clicking) trup is From Software like (System call) 2.2 How interrupts are handled in a computer system? (2 Marks) by two ways: save address g interupted 1- Polling
2- vectored interret 05

Pag

1	estion 3. [6 marks] I mark] List four major activities of an operating nagement?	
4		
b)	[1 mark] What is the purpose of system calls?	
	c) [1 mark] What is the purpose of system programs?	
ľ	() [
	d) [1 mark] What are the three major activities of an op	erating system in regard to men
	management?	
	management?	
		Page 4