University of Mumbai

Program: **Computer Engineering**Curriculum Scheme: Rev2016
Examination: TE Semester V

Course Code: CSDL5012 and Course Name: Advanced Operating Systems

Time: 2 hour Max. Marks: 80

Q1.	Choose the correct option for following questions. All the Questions are compulsory and carry equal marks	
1.	Which of the following is an architectural driven advanced operating system?	
Option A:	Data Base operating systems	
Option B:	Multiprocessor Operating systems	
Option C:	Real time operating Systems	
Option D:	Time sharing Operating systems	
2.	Which of the following parameter indicates how the process wishes to react to signals?	
Option A:	Array	
Option B:	The control terminal field	
Option C:	Pointer	
Option D:	Timer	
3.	The address of the next instruction to be executed by the current process is provided by the	
Option A:	Process stack	
Option B:	Pipe	
Option C:	Program counter	
Option D:	CPU registers	
4.	If process requires any Hardware and if it is not available then process enters into state	
Option A:	Ready to run,Swapped	
Option B:	Zombie	
Option C:	Ready to run in memory	
Option D:	Asleep in memory	
5.	interacts with the hardware and most of the tasks like memorymanagement, task scheduling and file management	
Option A:	Shell	
Option B:	Kernel	
Option C:	Bash	
Option D:	Device drivers	
6.	When kernel wants to allocate any buffer it removes a node from the free list, usually from the of list but is could take it from of the list too	
Option A:	middle,beginning	

Option B: middle,any side Option C: beginning.middle Option D: any side,middle 7. SVR4 stands for Option A: Option A: System V Release 4 Option D: Standard V release 4 Option D: Standard V Release 9 Option C: Standard V Release 9 Option C: Option D: Standard V Release 8. Each process contains a private per process region table called pregion region table precipion region table precipion region table precipion region table option A: Option B: Option D: region table precipion option D: It is standard P remains a private per process region table called precipion C: Option D: Permission mode field Option C: Option B: Limit field Option C: Option D: Timer 10. Files that maintain the hierarchical structure of the file system Directories Option A: Descriptors Option D: Directories Option D: Relative files 11. Minimum process required for context switching Option A: Option B: I Option C: 2 Option D: 3 12. Files in which users store information? Info files Option C: Special files Option C: Option D: Complex files 13. The files that appear as entries in the directories. Option B: Option B: Option B: Special files Option C: Option C: Option B: Special files Option C: Option D: Ordinary files Option C: Option D: Optio		
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	14.	Which one of the following is the address generated by CPU?
	Option A:	

Option B:	absolute address
Option C:	logical address
Option D:	Relative Address
Picco	
15.	A continuous area of a process's address space (such as text, data and stack) is
	called as
Option A:	Pregion
Option B:	region
Option C:	stack
Option D:	Program Counter
16.	When a Job scheduler passes the process to process scheduler its status is always
Option A:	ready
Option B:	run
Option C:	Hold
Option D:	finished
17.	is the software through which, the kernel of a computer communicates with
	different hardware, without having to go into the details of how the hardware
	works
Option A:	CPU registers
Option B:	Memory Control Information
Option C:	Device driver
Option D:	Scheduler
18.	In which OS Jobs have deadline for completion
Option A:	Real Time OS
Option B:	Distributed OS
Option C:	Desktop OS
Option D:	Multiprocessor OS
19.	Which directory contains all super user executable commands in UNIX OS
0.4:	1/1:
Option A:	/sbin
Option B:	/bin
Option C:	root
Option D:	/etc
20.	Which building block primitive of UNIX allows a stream of data to be passed
20.	from reader process and writer process?
	Total reader process and writer process:
Option A:	Standard Input
Option B:	Standard Output
Option C:	PIPE
Option D:	Standard error
Sparin B.	~ ******** * ******

Q2	Solve any Four out of Six	5 marks each

A	Discuss the following features of distributed operating systems: Resource sharing, load balancing, availability and fault tolerance	
В	Bring out the design issues of Multiprocessor operating system.	
С	What are the characteristics of Real time operating system.	
D	Enlist and explain the fields of Super block	
Е	Write an algorithm for Conversion of path name to an i-node in UNIX system.	
F	Explain the term Cache Affinity.	

Q3.	Solve any Two Questions out of Three 10 marks each Please delete the instruction shown in front of every sub question
A	Discuss the Micro, Nano and Monolithic kernel models of real time and embedded systems. Discuss the various applications or real life areas where real time and embedded operating systems are used.
В	What are the advantages of virtualization in cloud? Discuss the various types of virtualization.
С	Compare and contrast EDF scheduling and RMA scheduling.