Program: TE Electronics and Telecommunication Engineering

Curriculum Scheme: Rev 2012 Examination: Third Year Semester VI

Course Code: ETC605 and Course Name: Operating System

Time: 1 hour Max. Marks: 50

Note to the students:- All the Questions are compulsory and carry equal marks.

	The state of the s	
Q1.	which of the following is part of OS?	
	1)kernel service	
	2) library service	
	3) Application level service	
Option A:	Point 1	
Option B:	Point 1,2	
Option C:	Point 1,3	
Option D:	Point 1,2,3	
Q2.	refers to the ability of an OS to support multiple threads of	
	execution with a single process	
Option A:	Multithreading	
Option B:	Bithreading	
Option C:	Multiprocessing	
Option D:	Multiexecuting	
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Q3.	write system call returns -1 when	
Option A:	if disk fills up while write is in progress	
Option B:	when file doesn't exist	
Option C:	if the file size exceeds the system's limit	
Option D:	if disk fills up while write is in progress and if the file size exceeds	
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Q4.	Which one of the following error will be handle by the operating system?	
	1) power failure	
	2) lack of paper in printer	
	3) connection failure in the network	
Option A:	Point 1	
Option B:	Point 2 &3	
Option C:	Point 1,2,&3	
Option D:	Point 2 only	
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Q5.	A procedure defined within a can access only those variables declared	
	locally within the and its formal parameters.	
Option A:	Process, semaphore	
Option B:	Process,monitor	
Option C:	Semaphore,semaphore	
Option D:	Monitor, monitor	
Spilon B.		
Q6.	A situation where several processes access and manipulate the same data	
20.	concurrently and the outcome of the execution depends on the particular order in	
	concentency and the observed of the execution depends on the particular order in	

	which access takes place is called		
Option A:	which access takes place is called  Data consistency		
Option B:			
Option C:	<u> </u>		
Option D:	Race condition		
07	A doodlook ayantually arinnlas system throughout and will couse the CDU		
Q7.	A deadlock eventually cripples system throughput and will cause the CPU		
Option A:	utilization to		
Option B:	Increase Drop		
Option C:			
Option C:	Stay still  Remains constant		
Option D.	Remains constant		
Q8.	Which of the following does not interrupt a running process?		
Option A:	Device		
Option B:	Timer		
Option C:	Scheduler process		
Option C:	Power failure		
Option D.	Fower failure		
Q9.	A multilevel page table is preferred in comparison to a single level page table for		
Q).	translating virtual address to physical address because		
Option A:	it reduces the memory access time to read or write a memory location		
Option B:	it is required by the translation lookaside buffer		
Option C:	it helps to reduce the size of page table needed to implement the virtual address		
Option C.	space of a process		
Option D:	it helps to reduce the number of page faults in page replacement algorithms		
Option D.	it helps to reduce the number of page faults in page replacement argorithms		
Q10.	Which type of software can be used to merge data of two files in one file?		
Option A:	Networking software		
Option B:	Documenting software		
Option C:	System software		
Option D:	Utility Software  Utility Software		
Option D.	Other Bortware		
Q11.	Which RAID type doesn't use parity for data protection?		
Option A:	Raid 3		
Option B:	Raid 2		
Option C:	Raid 4		
Option D:	Raid 1		
Cruon D.	7		
Q12.	Consider a disk queue with requests for I/O to blocks on cylinders 98 183 37 122		
	14 124 65 67 Considering FCFS (first cum first served) scheduling, the total		
	number of head movements is, if the disk head is initially at 53 is?		
Option A:	600		
Option B:	640		
Option C:	540		
Option D:	480		
opnon D.			
Q13.	Whenever a number of devices interrupt a CPU at a time, and if the processor is		
<b>X13</b> .	There is a number of devices interrupt a er o at a time, and if the processor is		

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#### **Examination 2020 under cluster 4 (PCE)**

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	able to handle them properly, it is said to have		
Option A:	multiple interrupt processing ability		
Option B:	Interrupt handling ability		
Option C:	Interrupt processing ability		
Option D:	Multiple interrupt executing ability		
Q14.	In how many categories, commands of UNIX operating system classified?		
Option A:	1		
Option B:	2		
Option C:	Many		
Option D:	0		
Q15.	Which of the following is not a part of job control facilities?		
Option A:	Relate a job to background		
Option B:	Bring it back to the foreground		
Option C:	Kill a job		
Option D:	Create a new job		
Q16.	What is the major disadvantage with a linked allocation?		
Option A:	internal fragmentation		
Option B:	External fragmentation		
Option C:	There is no sequential access		
Option D:	There is only sequential access		
Q17.	Which option is used with ls command to list the directory attributes rather than		
	its contents?		
Option A:	-a		
Option B:	-b		
Option C:	-c		
Option C: Option D:	-c -d		
Option C: Option D: Q18.	-c		
Option C: Option D: Q18. Option A:	-c -d		
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Q21.	Which command changes a file's group owner		
Option A:	Cgrp		
Option B:			
Option C:	Change		
Option D:	group		
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Q22.	In Linux OS use to show the information about the system your Linux		
	distro is running		
Option A:	Name		
Option B:	Iname		
Option C:	Uname		
Option D:	Sname		
Q23.	A process P1 has a period of 50 and a CPU burst of t1 = 25, P2 has a period of 80 and a CPU burst of 35. The total CPU utilization is		
Ontion A.	0.9		
Option A: Option B:	0.9		
Option C:	0.74		
Option C:	0.94		
Option D.	0.8		
Q24.	T shares of time are allocated among all processes out of N shares in		
	scheduling algorithm.		
Option A:	Rate monotonic		
Option B:	Proportional share		
Option C:	EDF(earliest Deadline first)		
Option D:	Priority algorithm		
025	76.1		
Q25.	If there are a total of $T = 100$ shares to be divided among three processes, A, B		
	and C. A is assigned 50 shares, B is assigned 15 shares and C is assigned 20		
0 1: 1	shares. A will have percent of the total processor time.		
Option A:	20		
Option B:	15		
Option C:	50		
Option D:	25		

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Question	Correct Option (Enter either 'A' or 'B' or 'C' or 'D')
Q1.	D
Q2.	A
Q3.	D
Q4	С
Q5	D
Q6	D
Q7	В
Q8.	С
Q9.	С
Q10.	D
Q11.	D
Q12.	В
Q13.	A
Q14.	В
Q15.	D
Q16.	D
Q17.	D
Q18.	В
Q19.	С
Q20.	D
Q21.	В
Q22.	С
Q23.	С
Q24.	В
Q25.	С