B.C.A. (Part-I) Semester—II Examination OPERATING SYSTEM—2ST1

Time: Three Hours] [Maximum Marks: 60 Note:—(1) ALL questions are compulsory. (2) All questions carry equal marks. (3) Use suitable data wherever necessary. 1. (a) Explain: Assembler Compiler (iii) Interpreter. Explain different components of Unix operating system. OR What is software? Explain Application software and System software. 6 Explain:-Batch operating system Multiprogramming Multitasking. UWO-42459 1 (Contd.)

3.	(a) (b)	Explain directory structure Explain: (i) DIR (ii) Copy (iii) Copy Con.		6	7.	. (Compute turn around time of each process for algorithms FCFS and SJF (Use non preemptive Scheduling). Explain: (i) Sequential file Access (ii) Direct File Access.
4.	(a)	What is Booting?	Explain differ				(b)	Explain linked allocation with example. 6
		booting.	* *	6				OR
	(b)	Explain: (i) Autoexec.bat			-8	8.	(a)	Explain tree structured directory with neat diagram.
	ž.	(ii) Config. sys.	-	6				
		~ ~	-in measure efetas	with transition			(b)	What are the basic operations performed on a
5.	(a)	What is process? Expl	am process states	6	4			file?
		diagram.	t v o Familia	Paund Pohin).	(a)	What is segmentation? Explain.
	(b)		nung : Explan	Kound Room		·		
		scheduling in brief.					(b)	Explain any two pages replacement algorithms. 6
		OR						OR
6.	(a)	Explain FCFS proce example.	ess scheduling a	algorithm with		10.	(a)	What is paging? Explain.
	(b) Consider the following snapshot of an o			perating system			(b)	Explain the concept of memory fragmentation. 6
	(0)	with 3 processes:	•					
		Process	Arrival	Burst				
		***	time	time				
		P_{n}	0	8	•			
		$\mathbf{P}_{\mathbf{k}}$	1	3	†			
		P ₂	2	Î			-	
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