AT-429

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

Paper—2ST1

Tin	ne : T	hree Hours]	[Maximum Marks : 60
	No	te:—(1) All questions are compulsory.	
		(2) All questions carry equal marks.	
		(3) Assume suitable data wherever necessary.	
1.	(a)	Explain kernel-shell relationship architecture in Unix.	6
	(b)	What is software? Explain the types of software.	6
		OR	
2.	(a)	Explain utility software with diagram.	6
	(b)	Explain:	
		(i) Multitasking	
		(ii) Multiprogramming.	6
3.	(a)	Explain structure of FAT.	6
	(b)	Explain with example:	
		(i) RD	
		(ii) MD	
		(iii) DATE.	6
		OR	
4.	(a)	What is Formatting ? Explain.	6
	(b)	Explain with example:	
		(i) XCOPY	
		(ii) CHKDSK	
		(iii) DIR.	6

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5. (a) Consider the following snapshot of an operating system :

J.	(u)	Consider the	tonowing shapsho	t of an operating.	5,500		
		Process	s Arrival Time	Execute Time	Service Time		
		P_{α}	0	5	0		
		P_{\perp}	1	3	5		
		\mathbf{P}_{2}	2	8	8		
		P_{3}	3	6	16		
		Compute turn	around time of e	ach process for al	gorithms FCFS.		
	(b)	Explain Proce	ess Control Block	(PCB).			
				OR			
6.	(a)	Explain:					
		(i) Time slic	ing				
		(ii) Job sched	duling.				
	(b)	Explain Batch					
7.	(a)	Explain:					
		(i) Sequenti	al File Access				
		(ii) Direct Fi	ile Access.				
	(b)	What is linke	drawbacks?				
				OR			
8.	(a)	Explain contig					
	(b)	Explain tree s	n.				
9.	(a)	Explain the co	ncept of memory	fragmentation.			
	(b)	How partition	plain.				
				OR			
10.	(a)	Explain:					
		(i) FJFO					
		(ii) LRU.				4	
	(b)		ioning? Explain it	s types			
	(2)	The proof of the	emig , enpidit ti	~			

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