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

Time: Three Hours]			[Maximum Marks : 60	
	Not	te:—(1) All questions are compulsory.		
		(2) All questions carry equal marks.		
		(3) Use suitable data wherever necessary.		
1.	(a)	What is Software? Explain different types of utility softwares.	6	
	(b)	Explain Unix shell applications.	6	
		OR		
2.	(a) What is Operating System? Explain types of operating system.		6	
	(b)	Explain:		
		(i) Multitasking		
		(ii) Multiprogramming.	6	
3.	(a)	Explain the structure of File Allocation Table (FAT).	6	
	(b)	Explain with example:		
		(i) ATTRIB		
		(ii) Config.sys.		
		(iii) FORMAT.	6	
		OR		
4.	(a)	Explain Booting Process. Also explain its types.	6	
	(b)	Explain the directory structure of DOS.	6	
5.	(a)	Explain Process Control Block (PCB).	6	
	(b)	Explain:		
		(i) Time slicing		
		(ii) Batch processing system.	6	
		OR		
6.	(a)	Explain process scheduling. Explain priority scheduling in brief.		
	(b)	Explain:		
		(i) Suspend and Resume		
		(ii) Throughput		
		(iii) Waiting Time.	6	

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	(b)	Explain different space allocation techniques.	6
		OR	
8.	(a)	Explain contiguous allocation with example.	6
	(b)	What are the basic operations performed on a file ? Explain.	6
9.	(a)	What is segmentation? Explain.	6
	(b)	Explain page replacement algorithm.	6
		OR	
10.	(a)	Explain virtual memory management.	6
	(b)	Explain demand paging in detail.	6