SH	AHEED BHAGAT SINGH STATE TECHNICAL CAMPUS, FEROZEPUR	
	L NO: Total number of pages:[1]	
la .	Total number of questions:	7
	B.C.A./ 4 <sup>th</sup> Sem	
	Operating System	
	Subject Code: BSBC-403 (RP)	
	Paper ID: M//S	
Ti	ime allowed: 3 Hrs  Paper ID: M/18 (2011-2015 bearth) Max Marks:60	
Impo	rtant Instructions:	
	All questions are compulsory	
	PART A (10 x 2marks)	
Q. 1.	Answer in brief:	
	<ul><li>(a) Define thrashing?</li><li>(b) What are Fragmentation and its side effects?</li></ul>	
	(c) Discuss the preemptive scheduling?	
	(d) What is context switch?	
	(e) What are applications of threads?	
	(f) What are semaphores? Explain their role. (g) How interrupt is different from trap?	
	(b) Differentiate multi tasking and time sharing systems?	
	(i) What is Process Control Block?	
	(j) Explain Denial of Service attack.  PART B (5×8marks)	
		CO1
Q. 2.	What is meant by Operating System? Give its classification.  OR	
	Compare and contrast multiprogramming, multitasking, distributed and real time	CO1
	Compare and contrast multiprogramma g	CO2
0.2	operating system? What is process scheduling? Explain various CPU scheduling algorithms with their	002
Q. 3.	marite and demerits?	
		CO2
	Explain synchronization process and issues associated with it.  Explain various ways for inter process communication.  OR	CO3
Q. 4.	Explain various ways for filter process  OR	CO3
	Differentiate preemptive and non-preemptive scheduling algorithms.  Differentiate between physical memory	CO4
0.5	Differentiate preemptive and non-preemptive scheduling algorithms.  What do you mean by Memory management? Differentiate between physical memory	
Q. 5.	and logical memory?	
		CO4
	What do you mean by paging and demand paging? Explain.	COS
Q.6.	Write the short notes on the following.	
	OR	CO
	Explain various types of file access methods.	
	Explain various of	