(i)	Pri	inted Pag	es: 2	Roll No				
(ii)	Qu	estions	: 9	Sub. Code: 0	1 5 8			
				Exam. Code: 0	0 0 2			
		В.,	A./B.Sc.	(General) 2 nd Semester				
				(2054)				
				PUTER SCIENCE				
	Pap	er—CS03	3 (Theor	y-A: Operating System Con	cepts)			
Tim	e All	owed : Tł	ree Hou	rs] [Maximum]	Marks: 30			
Note	e :—	Question		uestion each from Section Section-E) is compulsory. Al s.				
			S	ECTION—A				
1.	Wha	What is Operating System? Explain the function of Operating						
	Syst	em.			6			
2.	Disc	cuss the fol	llowing fi	inctions:				
	(i)	Spooling						
	(ii)	Buffering						
	(iii)	Process S	Schedulin	g.	6			
			S	ECTION—B				
3.	Wh	at are the	compone	nts of Process? Also discuss th	ne various			
	state	es of a Pro	ocess.		6			
016	0/DC	22007						

4.	Wh	at is Process Control Block (PCB) in detail 7	6			
		SECTION—C				
5.	Explain the term Deadlock? How a deadlock can be detected and approaches to recover from the Deadlock?					
6.	When a system is in safe state? Which algorithm is used for keepin system in safe state? Explain briefly.					
		SECTION—D				
7.	Explain Demand Paging. When does Page Fault occur? Describ the action taken by OS when it occurs.					
8.	What is Virtual Memory? Discuss advantages and disadvof Virtual Memory.					
		SECTION—E				
9.	(a)	What is Interrupt? Various classes of Interrupt.	2			
	(b)	Round Robin Algorithm.	2			
	(c)	Short and Long Term Scheduler.	2			