

## END TERM EXAMINATION

Paper Code: BCA301 Subject: Operating System		
Time : 3 Hours		Maximum Marks :75
	e questions including Q.r ect one question from eac	no.1 which is compulsory. ch unit.
(b) Explain logical vo (c) List the difference (d) Explain bit-inte	ogramming and multi tasking ersus physical address space es between pre-emptive and a rleaved parity organization	
organization. (c) Explain logical a	nd physical file system.	(5x5=25)
1.	UNIT-I	
Q2 / (a) Discuss various (b) Explain the cond	types of fragmentation and m	nemory allocation strategies. (7.5)
Used Replaceme (b) The following ref {0,7,1,4,3,8,1,4,3 Find the number	nt Algorithm. erence string (access sequence 3,9,1,4,3,2,7,5,6}	memory subsystem that has 4
maines and uses	into page replacement pone,	To our domain paging.
	owing set of processes with land arrival times as specified	ength of CPU burst times (given :-
Process Arr	ival Time Burst Time	
P1	0 7	
P2 P3	1 4 8	
P4	3 5	
emptive SJF sch	eduling algorithm. Also, calc	of these processes using pre- ulate the average waiting time. ( thm and Priority Scheduling (7.5)
(b) What is the crit	phore? Describe the Readers- cical section problem? What d by a good solution to the cr	are the three requirement that
	UNIT-III	
Ob (a) Discuss Banker (b) Discussion Reso	's Algorithm in detail. ource Allocation Graph Algori	thm in detail. (7.5)
Q7 (a) Discuss various (b) Explain the cond	types of disk scheduling tech cept of buffering.	nniques. (7.5)
	UNIT-IV	
	y structure of file system.	(7.5
(b) Discuss general	model of file system.	(5)
	ferent approaches to user au ous types of threats to system	