(i)	Printed Pages: 2 Roll No
(ii)	Questions :9 Sub. Code: 0 1 5 8 Exam. Code: 0 0 0 2
	B.A./B.Sc. (General) 2 nd Semester 1059 COMPUTER SCIENCE Paper-CS03: Theory-A, Operating System Concepts
Tin	ne Allowed : Three Hours] [Maximum Marks : 30
	e:—Attempt five questions in all, Question No. IX (Unit-V) which is compulsory and selecting one question from each Unit I-IV. UNIT—I
I.	What is the difference between hardware and software? What are
	the components of an Operating System?
II.	Explain the activities of an Operating System for each function:—
	(a) Management of the processor
	(b) Management of the RAM
	(c) Management of execution of application. 6
	UNIT—II
III.	What are the principles that must be considered while selection of
	a scheduling algorithm?
IV.	Find out which algorithm among FCFS, SJF and Round Robin with quantum 10, would give the minimum average time for a given workload?

UNIT—III

V.	Wh	nat is the purpose of Banker Algorithm for deadlock proble	m ?
	Exp	plain with example.	6
VI.	Wh	nat are the resource allocation graph? What are uses of the	iese
	gra	phs? Explain with example.	6
		UNIT—IV	
VII.	Dis	cuss the various criteria for a memory management pol	icy.
	Exp	plain with an example of Paging.	6
VIII	.Co	mpare the FIFO and LRU page replacement algorithms.	6
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IX.	Ans	swer the following questions in brief:—	
	(a)	What is buffering?	30P
	(b)	What is the main difference between Network and Distribu	ited
		Operating System?	
	(c)	What is GRACEFUL DEGRADATION?	
	(d)	What is Scheduler?	. 1
	(e)	What is the disadvantage of virtual memory?	
	(f)	What are the fields of PCB? 6×1	=6
		(a) Management of the mogestor	