END TERM EXAMINATION

pape	r Code: IT-317	FECH] DECEMBER-2014 Subject: Operation S	4
_	3 Hours	Subject: Operating S	ystem
Note	Allempe with live duestions i-	ncluding Q.no.1 which is comput	ks: 00
,,-	Select one quest	ncluding Q.no.1 which is compul tion from each Unit.	sory.
	Answer the following:-	Just Onte.	
1	(a) What is Swapping?	(10:	x2=20)
•	(a) What is a process?	(10.	KZ-ZU)
	(c) Explain FIFO and LIFO.		
	(d) List various functions of OS.		
	(e) What is Thrashing?		
	(f) What is Context Switching?		
	(g) What is Multitasking?		
	(h) What is PCB?		
	(i) What is preemptive and		
	(i) What is preemptive and non p (j) What are Real Time Systems?	preemptive scheduling?	
	of what are real time systems?	,	
		(Y24 T	
	(A)	Unit-I	
)2	(a) State in brief the four key feat(i) Real-time (ii) Distributed (i(b) Discuss the advantages of Mu	tures of each of the following types of iii) Multiprogramming (iv) Time-sharialtiprocessor System.	f OS:-(8) ng. (2)
Q3	Explain various CDU ash adaily	1 11	
ĮŪ	Explain various CPU scheduling	algorithms with example.	(10)
		Unit-II	
		JIIIC-11	
Q4	multiprocessing systems.	rogramming, multitasking, timeshar	ring and (6)
	(b) What is a semaphore? What i	is its use?	(4)
Q5	What is a Deadlock? How is it avoidance algorithm.	detected and prevented? Explain D	Deadlock (10)
		Unit-III	
		J111C-111	
Q6		Describe the actions taken by the o	
	system when a fault occurs.	oging	(6)
	(b) Explain Segmentation with p	aging.	(4)
Q7	(a) A process references pages ir 1, 2, 3, 4, 5, 3, 4, 16, 7, 8, 7,	, 8, 9, 5, 4, 2, 4, 9	
	Use the FIFO, Optimal and I	LRU page replacement algorithms to	find out
		r this reference string using 3 page f	rames.(6
	(b) What is Demand Paging?		(4)
		TI-:4 TX7	
		Unit-IV	
8 <i>Q</i>	Write short notes on any two:-		(5x2=10)
	(a) (i) SCAN (ii) C-SCAN (iii) SST	'F (iv) FIFO.	(0.2-10)
	(b) Virtual Memory.	· (-)	
	(c) Windows 2000.		