Enrol	lment No:			
	C.U.SHAI	H UNIVERSITY		
		Examination-2018		
	VVIIICI I	Zaiiiiiation-2010		
Subje	ct Name : Operating System			
Subject Code: 4TE04OPS1		Branch: B.Tech (CE)	Branch: B.Tech (CE)	
Semes	ster:4 Date: 31/10/2018	Time: 10:30 To 01:30	Marks: 70	
	Draw neat diagrams and figures ( Assume suitable data if needed.	(if necessary) at right places.		
Q-1	·	leted per unit time is known as	. (1	
ì	<ul><li>A) Output B) Throughput C) E</li><li>A program in execution is known</li></ul>	•		
	A) Process B) Thread C) l			
(	<ul><li>What is the full form of LRU?</li><li>A) Logical Region Unit C</li></ul>	') Latest Region Unit		
	B) Least Recently Used D	•		
(	d) Give the full form of PCB.			
	A) Process Control Block			
		ock D) Program Common Board		
•	e) Which of the following is not a A) LRU B) FIFO C) LIFO			
f	External fragmentation can be r			
•	·	rge Memory Space	•	
	, <u>*</u>	ess No. of Process		
Ę	g) Give full form of DOS.			
	A) Disk Operating System	C) Both A and B		
	B) Denial of Service	D) None of these		
	a) PAM is known as			

## Define Turn Around Time and Waiting Time. Define Operating System. j) 1 **k**) Define Page Fault. 1 Explain *rm* command. 1 l) **m**) Explain *mv* command. 1 Attempt any four questions from Q-2 to Q-8

What is Operating System? Explain types of Operating Systems.

Define Process. Explain Process state diagram.

B) Auxiliary Memory

A) Main Memory

**Attempt all questions** 

i)

**Q-2** 

A

В



2

**(14)** 

7

Q-3	Attempt all questions	(14)
$\mathbf{A}$	What is page fault? Explain any 2 page replacement algorithms.	7
В	Define Deadlock. Discuss deadlock prevention methods.	7
Q-4	Attempt all questions	(14)
$\mathbf{A}$	Write a short note on Fragmentation.	6
В	What is PCB? Explain its fields.	4
C	Explain <i>chmod</i> command in detail.	4
Q-5	Attempt all questions	(14)
$\mathbf{A}$	Discuss File Attributes and File Operations.	7
В	Write a note on Fragmentation using diagram.	7
Q-6	Explain following methods of capital budget	(14)
$\mathbf{A}$	Explain Directory structure.	5
В	What is Thread? Explain Multithreading models.	5
C	Explain FCFS algorithm in brief.	4
Q-7	Attempt all questions	(14)
A	Write a short note on Virtual Memory.	7
В	Discuss: 1. Semaphore and 2. Critical-Region	7
Q-8	Attempt all questions	(14)
A	Discuss swapping in memory management.	5
В	Write a Shell Script to find average of 5 numbers	5
Ċ	Explain UNIX Commands : wc. ls	4

