Exam Seat No:

Enrollment No:_ **C.U.SHAH UNIVERSITY**

Wadhwan City

Summer Examination-2014

Date: 23/06/2014

Time:02:00 To 5:00

Subject Code :5CS02POS1 Subject Name: Operating System Branch/Semester:- M.Sc(I.T)/II **Examination: Regular**

Instructions:-

(1) Attempt all Questions of both sections in same answer book / Supplementary (2) Use of Programmable calculator & any other electronic instrument is prohibited.

(3) Instructions written on main answer Book are strictly to be obeyed.

(4)Draw neat diagrams & figures (If necessary) at right places

(5) Assume suitable & Perfect data if needed

SECTION-I

Q:1	Attempt the following questions.		
	1	What are short, long and medium-term scheduling?	2
	2	What are turnaround time and response time?	2
	3	What is the Translation Lookaside Buffer (TLB)?	2
	4	What is a semaphore?	1
Q:2	а	Attempt the following questions.	
		(1) Explain Different Types of Operating Systems.	4
		(2) Explain Computer System Structure.	4
	b	What is process? Describe the elements of PCB in details.	6
		OR	
Q:2	a	Describe inter process communication using message passing. Give a solution to the	8
		Producer / Consumer problem using message passing.	
	b	Write a detailed note on remote procedure call (RPC).	6
Q:3	a	What is scheduling? Explain FCFS Scheduling with an example.	7
	b	What is paging? Explain the logical to physical address translation mechanism with	7
		example.	
		OR	
Q:3	а	What is segmentation? How does it differ with paging? Explain address translation in	7
		segmentation with paging.	
	b	Explain the round-robin scheduling policy with example.	7
		SECTION-II	
Q:4	Answer the following questions.		
	1	List out some reasons for process termination.	3
	2	What is relative path and absolute path?	2
	3	What is the difference between Primary storage and secondary storage?	2

What is the difference between Primary storage and secondary storage? 3 Q:5 Why define File? Explain Different File Operations. a Comparison of directory with File. b (1)(2)Explain Different Structure of Directory. OR Explain File Interface. Explain Different concepts of file (open, create, close) Q:5 a Explain Different File Access Methods. (1)b (2)Explain File Protection in terms of UNIX. Q:6 Explain I/O Hardware Bus Structure. а Explain I/O System Lifecycle. b OR Explain UNIX SVR4 i/o. Q:6 а b

Describe software device drivers.

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