QUESTION PAPER CODE- 54021

University Institute of Engineering & Technology

(Recognised Under Section 2(f) and 12B of UGC)

Kurukshetra University, Kurukshetra

Roll No. -

THEORY EXAMINATION – MAY 2019	
B.TECH - CSE	SEMESTER - IV

TIME – 3 Hrs.

M.M. -

PAPER- CSE-210	SUBJECT- OPERATING SYSTEM

Note: All questions in Part-A and Part-B are compulsory. Attempt any four questions from Part-C selecting at least one from each unit.

PART-A (15 Marks)

Q. No. – 1 Answer the following questions. **15x1=15**

(i)	What do you understand by operating system?
(ii)	**What is meant by the term 'Context Switch'?**
(iii)	Name any two operating systems used for desktop?
(iv)	What is a process?
(v)	What is the meaning of ready state of a process.
(vi)	What is the importance of CPU scheduling.
(vii)	What is priority scheduling?
(viii)	What is deadlock?
(ix)	Explain any two advantages of memory management.
(x)	Why the size of page is kept small.
(xi)	Give the name of any two page replacement algorithms.
(xii)	What is demand paging?
(xiii)	What is the purpose of using disk scheduling?
(xiv)	What is preemptive scheduling?
(xv)	What is turn-around time of a process?

PART-B (20 Marks)

	UNIT-I	
2	Differentiate between multiprocessing and multiprogramming.	5
	UNIT-II	
3	Write a short note on shortest job first scheduling algorithm.	5
	UNIT-III	
4	Explain the four necessary conditions for a deadlock to occur?	5
	UNIT-IV	
5	Explain the disk scheduling SCAN algorithm with the help of suitable example?	5

PART-C (40 Marks)

	UNIT-I	
6	Explain the different types of Opeating system.	10
7	Describe the functions of an Operating system.	10
	UNIT-II	
8	Explain FCFS and Round Robin CPU scheduling algorithms with the help of suitable example.	10
9	Explain the different states of a process with the help of labeled diagram.	10
	UNIT-III	
10	Explain Banker's algorithm with an example.	10
11	What is meant by page fault. How it is handled by an operating system. Explain.	10
	UNIT-IV	
12	Describe FCFS and SSTF disk scheduling by taking an example.	10
13	Explain file access methods **OR** file allocation methods.	10