

www.FirstRanker.com



Code No: **R42045**

R10

Set No. 1

IV B.Tech II Semester Supplementary Examinations, April - 2018

OPERATING SYSTEMS

(Electronics and communication Engineering)

Time: 3 hours Max. Marks: 75

Answer any FIVE Questions All Questions carry equal marks

1		Write a short notes on the following: (i) Operating system structures (ii) The memory hierarchy	54.63
		(iii) File manipulation	[15]
2	a)	What are the five major activities of an operating system in regard to memory management? Write in detail.	[8]
	b)	Explain briefly when caches are useful. What problems do they solve? What problem do they cause?	[7]
3	a)	What is the meaning of the term busy waiting? What other kinds of waiting are there in an operating system? Explain them in detail.	[8]
	b)	Explain the concept of transaction aternicity.	[7]
4	a) b)	What are the different methods for managing deadlocks? Suppose a system is in an unsafe state? Show that it is possible for the	[7]
	٥,	process to complete their executions without entering a dead lock state.	[8]
5	a) b)	Compare the contiguous and noncontiguous memory allocation. Write a short notes on the following:	[5]
		(i) Memory protection(ii) Segmentation with paging	[10]
6	a)	What is meant by scheduling? List and explain about the process of scheduling algorithms.	[8]
	b)	What are the operating system design issues? Explain in detail.	[7]
7	a) b)	Name the six basic file operations and explain them using an example. Explain the internal architecture of file structure using an example.	[7] [8]
8		Explain the following:	
		(i) Password protection (ii) Intruders	[15]