Code No: 843AC

8.

R17

[7+8]

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD MCA I Semester Examinations, February - 2021 OPERATING SYSTEMS

Time: 2 hours Max.Marks:75

Answer any five questions All questions carry equal marks

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1.	What are the different services offered by the operating system? Explain in detail	. [15]
2.a) b)	Briefly explain typical functions of an Operating-System Kernel. What are the different types of operating systems? Explain them in detail.	[7+8]
3.a) b)	What is unsafe state? Differentiate between unsafe state and deadlock state. Explain recovery procedures from deadlocks.	[7+8]
4.	Explain the following: a) Scheduling Criteria. b) Cooperating Processes.	[7+8]
5.	Explain about message queues and shared memory.	[15]
6.a) b)	Explain about demand paging. Differentiate between paging and segmentation.	[7+8]
7.a) b)	Describe file system counting. Explain the concept and techniques of free space management.	[7+8]

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Write short wes on: a) unix file structure b) system calls in unix.