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[7+8]

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

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b) system calls in unix.

Write short notes on: a) unix file structure