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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD MCA II Semester Examinations, December - 2019 OPERATING SYSTEMS

Time: 3 Hours Max. Marks: 60

Note: This question paper contains two parts A and B.

Part A is compulsory which carries 20 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 8 marks and may have a, b, c as sub questions.

PART - A

 5×4 Marks = 20 1.a) What are the objectives of operating system? [4] What is process control block? b) [4] c) What is demand paging? [4] d) What is file system mounting? [4] e) What is access matrix? [4] PART - B $5 \times 8 \text{ Marks} = 40$ Distinguish between multi-programmed and time shared systems. 2. [8] 3. What are special purpose systems? Elaborate on them. [8] 4. How process synchronization is achieved in linux. [8] Explain multiprocessor and real time scheduling. 5. [8] 6. Explain page replacement algorithms with examples. [8] Explain segmentation with paging memory management technique. 7. [8] 8. Explain various file allocation methods. [8] OR 9. Explain disk scheduling algorithms. [8] 10. What are deadlock recovery strategies? [8] OR 11. What is a deadlock? What are resource allocation graphs? How resource allocation graphs are useful in identifying and avoiding a deadlock.

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