

Code No: 812AG

**Time: 3 Hours** 

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Max. Marks: 60

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

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

PART - A

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

8 marks and may have a, b, c as sub questions.

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

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