Code No: 871AD JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD MCA I Semester Examinations, October/November - 2022 OPERATING SYSTEMS

Time: 3 Hours

Max.Marks:75

Answer any five questions All questions carry equal marks

1.a) b)	Distinguish between parallel and distributed systems. What are the services provided by operating systems?	[7+8]
2.	What are real time systems? What are different types of real time systems? Explai	n.[15]
3.a) b)	List and explain various scheduling criteria. What is multiple processor scheduling?	[7+8]
4.	Explain various system calls for process management.	[15]
5.	Explain how synchronization is achieved through monitors.	[15]
6.	What is a deadlock? How can it be prevented?	[15]
7.	Simulate page replacement algorithms on following reference string: 1,2,3,4,2,3,1,5,6,3,5,2,7,4,5,3	[15]
8.	Explain write, closed iseek, stat and ioctl system calls.	[15]
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