MCA-4thSem

Advanced Operating System

(RPI

Subject Code - MCA404

Time	e allowed: 3 Hrs . (2012-2015 batch) Mi	ıx Marks: 60
181 4	nportant Instructions:	
	All questions are compulsory	
£ .	Assume any missing data	
	PART A (2×10)	
Q. 1.	Short-Answer Questions:	All COs
	(a) What is load balancing?	
	(b) Differentiate SRAM and DRAM.	
	(c) Explain the term grid monitoring.	
	(d) Explain the concept of logical clock.	
	(e) What do you mean by periodic task?	
	(f) What do you mean by energy aware cpu scheduling?	
	(g) I/O versus Memory Bus.	
	(h) What is meaning of cluster computing?	
	(i) What is mobile computing?	
	(j) What is IPC.?	
	PART B (8×5)	COL
Q. 2.	List and explain the goals of distributed operating System OR	COL
3. E	Explain in brief the term multi-processor and distributed os.	COL
Q. 3.	Explain the three approaches to develop operating System OR	CO2
	Describe Rate Monotonic Scheduling Algorithm	CO3
Q. 4.	Discuss the architecture of grid.	7.03
	OR	
	Write principal for the design of high performance network Subsystem	? 003
Q. 5.	Explain a) iPhone	CO4
	b) Windows mobile OS	
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	OR	
	Explain the NAS and SAN and also differentiate them.	CO4
Q. 6.	Explain the issues in mobile computing. OR	CO4
	Describe the grid scheduling paradigms.	
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