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P.E.S. College of Engineering, Mandya - 571 401

(An Autonomous Institution affiliated to VTU, Belgaum)

Seventh Semester, B.E. - Computer Science and Engineering Semester End Examination; Dec. - 2015 Distributed Operating System

Time: 3 hrs Max. Marks: 100

Note: Answer any FIVE full questions, selecting at least TWO full questions from each part.

PART - A

1	a.	Explain in detail the various distributed computing system models with suitable sketches.	10
	b.	Discuss the various issues in designing a distributed operating system.	10
2	a.	Briefly discuss the desirable features of a good message passing system.	10
	b.	Discuss the concept of failure handling in IPC with suitable examples.	10
3	a.	Explain in detail the implementation of RPC mechanism with a suitable sketch.	10
	b.	Write short notes on:	
		i) The request/Reply Protocol	10
		ii) The request/ Reply /Acknowledge- Replay protocol	
4	a.	Briefly discuss the design and implementation issues of DSM.	10
	b.	Explain the various consistency models in DSM.	10
		PART - B	
5	a.	Differentiate between Global Averaging Distributed Algorithm and Localized Averaging	10
		Distributed Algorithm.	10
	b.	Explain in detail the probe - based distributed algorithm for deadlock detection.	10
6	a.	Briefly discuss the various desirable features of a good global scheduling algorithm.	10
	b.	Explain the issues of designing load balancing algorithms.	10
7	a.	Discuss the various advantages of process migration.	10
	b.	Explain the various issues in designing a Threads package.	10
8	a.	Explain the desirable features of a good distributed file system.	10
	b.	Discuss the file-accessing models with suitable example.	10