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## Question Paper Code: P 1206

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2009.

Fourth Semester

(Regulation 2004)

Computer Science and Engineering

CS 1252 — OPERATING SYSTEMS

(Common to Fifth Semester Information Technology)

(Common to B.E. (Part-Time) Third Semester Computer Science and Engineering Regulation 2005)

Time: Three hours

Answer ALL question's.

Maximum: 100 marks

PART A —  $(10 \times 2 = 20)$  plarks)

- What is the difference between OS for mainframe and desktop systems?
- 2. Differentiate long term scheduler from short term scheduler.
- Define critical region.
- 4. What is meant by monit (s)
- 5. What is a safe state? Sive the use of safe state in deadlock avoidance.
- 6. Why is paging wed?
- 7. What is meant by demand paging?
- 8. Define thrashing.
- What is the importance of shells in Linux?
- Differentiate worms from virus.

11.	(a)	Describe in detail the activities involved in sharing of information between two processes. (16)
		termoen end processes.
		Or
	(b)	Write short notes on: (10 + 6)
		(i) Virtual machines
		(ii) Hardware protection
12.	(a)	Discuss how the dinning philosopher's problem can be solved by monitors. (16)
		Or
	(b)	Explain the various process scheduling algorithms with example. (16)
13.	(a)	Discuss how deadlocks can be avoided and deacted. (16)
		Or
	(b)	Describe segmentation. (16)
14.	(a)	Explain the various page replacement algorithms with example. (16)
		O.
	(b)	Why is file protection necessary? Explain the techniques used for file
		protection. (16)
15.	(a)	Discuss the file system in Linux. (16)
		Or
	(b)	Discuss in describ the disk management techniques followed in OS. (16)