Code No: **R31056** **R10** **Set No. 1**

III B.Tech I Semester Supplementary Examinations, May - 2017

OPERATING SYSTEMS

(Common to Computer Science and Engineering & Information Technology**)**

Time: 3 hours **Max. Marks: 75**

Answer any FIVE Questions
All Questions carry equal marks

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1	a)	What are the different kinds of memory supported by a computer system? Classify them based on various parameters such as accuracy, performance, price etc.	[8M]
	b)	What are the functions performed by the operating system?	[7M]
2	a)	How is thread scheduling different from process scheduling?	[7M]
	b)	Explain the working of Round robin scheduling algorithm.	[8M]
3	a)	What is the need for synchronization? How is process synchronization achieved?	[7M]
	b)	What is semaphore? What are the different types of semaphore?	[8M]
4	a)	How segmentation supports user's view of the memory?	[8M]
	b)	What is the need for swapping? Discuss	[7M]
5	a)	What are the problems with the implementation of Optimal page replacement?	[7M]
	b)	Write short notes on working of LRU page replacement algorithm	[8M]
6	a)	What is stagnation? What is aging? Explain with examples.	[8M]
	b)	Define Deadlock. How deadlocks occur? How the performance of system varies with deadlock? Discuss with examples.	[7M]
7	a)	Compare sequential and direct access methods	[8M]
	b)	What is mounting and un mounting of a File system? How is it done in LINUX environment?	[7M]
8	a)	What are the different types of backup devices available? Explain them.	[8M]
	b)	How the swapping between main memory and disk takes place?	[7M]

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