**R15** 

[10]

[10]

## Code No: 125EH

8.

9.

## JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B.Tech III Year I Semester Examinations, November/December - 2018 OPERATING SYSTEMS

(Common to CCE IT)	
	. Marks: 75
Note: This question paper contains two parts A and B.  Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.	
PART - A	
(25 Marks)	
	(=0 1/1001110)
What are the goals of operating system? What is an Operating system? What are the various OS Components?	[2] [3]
	[2]
What is Wintual Mamany? Why is it magnined?	[3]
	[2] [3]
	[2]
	[3]
<del>_</del>	[2]
Write down the principles of protection.	[3]
рарт р	
(50 Marks)	
Describe evolution of operating system in detail.  OR	[10]
	ovided by an
operating system with respect to memory management.	[10]
Explain FCFS, RR and SJF scheduling algorithm with illustrations.  OR	[10]
Explain about multiple-processor scheduling and real time scheduling.	[10]
What is the need of demand paging? Explain briefly.  Explain in detail about segmentation on with paging technique.  OR	[5+5]
Explain in detail Contiguous Memory Allocation.	[5+5]
	This question paper contains two parts A and B. Part A is compulsory which carries 25 marks. Answer all questions in Pconsists of 5 Units. Answer any one full question from each unit. Each question marks and may have a, b, c as sub questions.  PART - A  What are the goals of operating system? What is an Operating system? What are the various OS Components? What is critical section problem? What is preemptive Scheduling? How is it different from non-preemptive statistical section problem? Compare LRU and Optimal Replacement Algorithms. What are the files attributes up dated during file creation? What are the methods for accessing the file? Define deadlock. Write down the principles of protection.  PART - B  Describe evolution of operating system in detail. OR What is the need for system calls? Explain the types of system calls properating system with respect to memory management.  Explain FCFS, RR and SJF scheduling algorithm with illustrations. OR Explain about multiple-processor scheduling and real time scheduling. What is the need of demand paging? Explain briefly. Explain in detail about segmentation on with paging technique. OR Explain in detail about paging technique.

Explain in detail about file system structure and implementation.

Explain in Well to bound a role of the second of the secon

10. How can deadlock be detected and recovered? Explain in detail with relevant example.

[10]

## OR

- 11.a) What is access matrix? What are various methods to implement it?
  - b) Explain Capability-Based Protection system.

[5+5]

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