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TED (15) - 4134 .		Reg. No	
(REVISION — 2015)		Signature	
the state of the s	NATION IN ENGINEED COMMERCIAL PRACTI	•	
,	OPERATING SYSTEMS		
•	·	[2	Time: 3 hours
	(Maximum marks: 100)		
	PART — A		
	(Maximum marks: 10)		
			Marks
I Answer <i>all</i> questions	in one or two sentences. Each	question carries 2	marks.
1. Write any two fun	ctions of loaders.		**
2. What is meant by	deadlock?		
3. Define fragmentation	on.		
4. What is virtual box	x ?		
5. List different file a	llocation methods.		
			$(5 \times 2 = 10)$
•	PART — B		
	(Maximum marks: 30)		
II Answer any five of the	e following questions. Each que	stion carries 6 marl	Œ.
1. Write the functions	s of operating systems.	÷	
2. Explain multiproce	essor systems with its advantages.	• ,	•
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- 3. State scheduling criteria.
- 4. Describe deadlock detection.
- 5. Write the steps in handling page fault.
- 6. Discuss different address bindings.
- 7. List and explain any four file operations.

 $(5 \times 6 = 30)$ 

## PART — C

## (Maximum marks: 60)

(Answer one full question from each unit. Each full question carries 15 marks.)

		Unit — 1	
III (a) De		Define interpreter and mention its functions.	8
	(b)	Write short note on batch systems.	7
		OR	
IV	(a)	Compare windows and linux operating systems.	10
	(b)	Discuss multiprogramming systems.	5
		Unit — II	
V	(a)	Draw the process state diagram and explain its different states.	8
	(b)	List and explain various schedulers.	. 7
		Or	
VI	(a)	Explain FCFS and RR scheduling algorithms with their Gantt charts.	10
	(b)	Describe critical section problem.	5
		Unit — III	
VII	(a)	List and explain memory allocation strategies.	8
	(b)	Write short note on virtual memory and its benefits.	.7
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III		Explain segmentation hardware with diagram.	8
	(b)	Present FIFO and LRU page replacement algorithms with example.	7
		Unit — IV	
IX	(a)	Explain any two directory structures.	8
	(b)	Discuss VMware architecture with diagram.	7
		Or	
X	Expl	ain different types of virtualization.	15