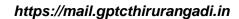


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(REVISION —	2015)	Signature	
	PLOMA EXAMINATION IN ENGINEERIN ANAGEMENT/COMMERCIAL PRACTICE —		
	OPERATING SYSTEMS	•	
			[Time: 3 hours
	(Maximum marks: 100)		•
	D. D.		
	PART — A (Maximum marks : 10)		
	(Artestificati marks : 10)		Mark
I Ansv	wer all questions in one or two sentences. Each question	on carries 2 mar	
	List the functions of Loader.		
2.	Define process.		
3.	Distinguish between logical address and physical address.		
4.	Define file control block.		
5.	Define Thin client.		$(5 \times 2 = 10)$
	PART — B		
	(Maximum marks: 30)		
II Anes	wer any five of the following questions. Each question as		
		unes o marks.	
	(Maximum marks : 30) wer any <i>five</i> of the following questions. Each question ca	urries 6 marks.	

- Write notes on Time sharing systems.
- Describe the goals of operating system. 2.
- Explain different types of schedulers. 3.
- Describe the three address binding methods.
- 5. Explain critical section problem and the requirements for its solution.
- Compare segmentation and paging.
- 7. List and explain different file operations.

 $(5 \times 6 = 30)$





Marks

PART — C

(Maximum marks: 60)

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

		Unit — I	
III	Expl	ain any five operating system components.	15
		O_{R}	
IV	Com	apare the features of DOS, Unix, Windows and Linux operating systems.	15
		Unit — II	*
\mathbf{V}^{-}	(a)	Explain any three process scheduling algorithms with example.	9
	(b)	Explain the methods for preventing deadlock.	6
		O_{R}	
VÏ	(a)	Illustrate resource allocation graph with example.	9
	(b)	Describe the general structure of PCB.	6
		Unit — III	
VII	(a)	Explain contiguous memory allocation scheme.	9
	(b)	Explain the steps to handle page fault.	6
		O_{R}	
VIII	(a)	Describe any three page replacement algorithms with example.	9
	(b)	Explain paging with paging hardware diagram.	6
		Unit — IV	
IX	(a)	Explain about different directory structures.	. 9
	(b)	Explain about virtual box. OR	6
X	(a)	Discuss about different allocation methods in detail.	. 9
	(b)	Explain different types of hardware virtualization.	6