TED (15)-	- 4134	

(REVISION - 2015)

Reg. No.	

DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/ MANAGEMENT/COMMERCIAL PRACTICE - APRIL, 2018

OPERATING SYSTEMS

[Time: 3 hours

(Maximum marks: 100)

PART -A

(Maximum marks: 10)

Marks

- I Answer all questions in one or two sentences. Each question carries 2 marks.
 - Write any two functions of loaders.
 - What is meant by deadlock?
 - Define fragmentation.
 - What is virtual box ?
 - vennikulam 5. List different file allocation methods. mvgmg

 $(5 \times 2 = 10)$

PART — B

(Maximum marks: 30)

- II Answer any five of the following questions. Each question carries 6 marks.
 - Write the functions of operating systems.
 - Explain multiprocessor systems with its advantages.
 - State scheduling criteria. 3.
 - Describe deadlock detection.
 - Write the steps in handling page fault
 - Discuss different address bindings.
 - 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.)

Untr — 1

Ш	(a)	Define interpreter and mention its functions.	8
	(b)	Write short note on batch systems.	7
		O _R	
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
ä	(b)	Describe critical section problem. UNIT - MIL TILL TO THE CONTROL OF THE CONTROL	. 5
VΙΙ	(a)	List and explain memory allocation strategies.	8
	(b)	Write short note on wirtual memory and its benefits. OR	7
VIII	(a)	Explain segmentation hardware with diagram.	8
	(b)	Present FIFO and LRU page replacement algorithms with example.	7
		Unit — IV	0.00
IX	(a)	Explain any two directory structures.	8
	(b)	Discuss VMware architecture with diagram.	7
		Or .	
X	Ехр	lain different types of virtualization.	15