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23543

M. Tech. 1st Sem. (Cyber Forensics and Information Security) Examination— December, 2016

OPERATING SYSTEMS AND SECURITY

Paper: MTCF-103

Time: 3 hours

Max. Marks: 100

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard will be entertained after the examination.

Note: Students have to attempt five questions in all selecting one question from each section and question no. 1 is compulsory.

1. Explain the following:

(a) System calls (5)

(b) Virtual Memory (5)

23543-150-(P-3)(Q-9)(16) (1) [Turn Over

(c) Threads	(5)		, <u>,</u> .	Section-C	•
, (d) SMB	(5)		6.	Describe the following:	(20)
Section-A				(i) Flow of Create Process	•
Section-A				(ii) Process Internals	
2. (a) Define operating system. Exdetail about OS organisation.	xplain in (10)			(iii) Job Objects	
(b) Define Process. Explain in de				What do you understand by Wir management mechanisms? Explain.	ndows (20)
Process Management.	(10)			Section-D	
3. Define deadlock. Explain in det	8.	8 .	Explain the following:	* * *	
deadlock detection and recovery.	(20)			(i) Remote file system security	(10)
Section-B				(ii) Smart Cards	(10)
4. Give a complete description abou	t memory		9.	Describe the following:	•
management.	(20)	•		(a) Digital Rights Management	(10)
5. Explain the following:		,	•	(b) TCPA and NGSCB	(10)
(a) Memory Mapped Files	(10)				٠,
(b) Device Drivers	(10)				
23543-150-(P-3)(Q-9)(16) (2)	•		، 2354	43-150-(P-3)(Q-9)(16) (3)	