Roll No.

23543

M. Tech. 1st Semester (Cyber Forensics and Information Security) Examination – January, 2016 OPERATING SYSTEMS AND SECURITY

Paper: MTCF-103

Time: Three Hours]

[Maximum 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 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:

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- (i) OS Organization
- (ii) Swapping
- (iii) Processes
- (iv) SMB

P. T. O.

SECTION - I

(ii) Explain the following:

Define Operating System. Explain its functions. 10

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	(a) Time Sharing and Multiprogramming		
		(b) Real Time Systems	
3.	Explain the following: 20		
	(i)	Deadlock Avoidance	
	(ii)	Threads	
'	(iii)	Two phase locking	
SECTION - II			
4.	(i)	What do you understand by segmentation	ı ?
		Explain.	10
	(ii)	Give a brief description about low level	file
		implementations.	10
5.	Give a complete description about file system and I/O		
	mar	nagement.	20

SECTION - III

Define Registry. Explain in detail about Registry usage and Registry data types. 10 (ii) Give a complete description about service control 10 manager. 20 **7.** Explain the following: Thread Internals (ii) Job Objects (iii) Thread Scheduling SECTION - IV 8. What do you understand by Secure Operating Systems? Explain in detail. 20 20 **9.** Explain the following: (i) Trusted Computing (ii) Digital Rights Management