## M.E. Second Semester (Computer Science & Engineering) (F.T.) (CGS) 13152 : Elective : Network Security : 2 RMEF 4 / 4 RME 2

P. Pages: 2

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Tin	ne : Thr	ee Hours	Max. Marks: 80
	Note	All question carry equal marks.     Due credit will be given to neatness and adequate a Assume suitable data wherever necessary.     Retain the construction lines.     Illustrate your answer necessary with the help of necessary.	
		SECTION – A	
1.	a)	What do you mean by Vulnerability? Describe all types of how the three goals of security are applied to data.	Vulnerabilities and also state 8
	b)	What do you mean by security Goals? Describe in brief three computer security.	ee important aspects of 6
		OR	
2.	a)	Explain DES algorithm in detail with suitable block diagrar	n. 8
	b)	What are the characteristics of a good cipher? Explain.	6
3.	a)	List the control against program threat. Explain development in details.	ntal and administrative control 6
	b)	Explain the following related to targeted malicious code.  i) Trojans. ii) Trapdoors.  iii) Man-in-the middle attacks.	7
		OR	
4.	a)	What is boot sector virus? How boot sector virus affect the	system. 7
	b)	Explain the first level and second level refinement in system	security. 6
5.	a)	What are the mechanisms to protect an object? Explain in b mechanism to protect an object.	rief Access Control list 7
	b)	Explain segmentation with logical and physical representation segment address.	on and explain translation of 6
		OR	
6.	a)	Give an example of use separation for security in computing	g environment. 6
	b)	Explain in brief password selection criteria and also explain with suitable examples.	one time password functions 7

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## SECTION - B

7.	a)	What are the important design principles to security while building solid trusted operating systems? Explain them in brief.	
	b)	What is multilevel security? Explain Lattice Model of Access security.	7
		OR	
8.	a)	Explain in brief Chinese Wall security policy.	7
	b)	b) Explain what is virtualization? Explain the concept of multiple virtual memory space.	
9.	a)	Explain inference with the help of suitable example. How will you control statistical inference attacks?	
	b)	Explain the following.  i) Indirect Attack.  ii) Integrity lock.	6
		OR	þ
10.	a)	What is the purpose of encryption in multilevel secure database management system?	7 Etp:/
	b)	b) Explain the concept of reliability and integrity in database security.	
11.	a)	What is firewall? What are its types? Explain application proxy?	5 W.S
	b)	Explain the following.  i) Eavesdropping and Wiretapping. ii) SSL security at transport layer.  iii) Denial of service attack. iv) Session Hijacking.	nttp://www.sgbauonline.com
		OR	ine.
12.	a)	What is IDS? What are the functions performed by IDS? Explain in brief strength and weakness of IDS.	
	b)	What are the steps to be analyze the security risks in a computing system. Explain in brief.	6

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