

Date: 29-May-2018

04

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**Subject Code: 3630012** 

## GUJARAT TECHNOLOGICAL UNIVERSITY

MCA - SEMESTER - III • EXAMINATION - SUMMER 2018

•		e: Information Security om to 5.00 pm  Total Marks: 70	
	(i) (ii)	INSTRUCTIONS Attempt all the questions Numbers indicated to the right are the full marks	
	(iii) (iv)	Draw diagrams where necessary. Figures on the right indicate Marks	
Q:1	(a)	Answer the following	06
	1	Vulnerability	
	2	Threat	
	3	Confidentiality	
	4	Unexpected Behaviour	
	5	Reconnaissance	
	6	Incomplete Mediation	
Q:1	<b>(b)</b>	Answer the following	08
	1	What is Interception? Give one example	
	2	Give two examples of vulnerabilities in automobile for which company	
	3	List different Hacker categories	
	4	Stream Cipher	
0.4			
Q.2		Answer the following	
	(a)	On a typical Multi-user computing system (e.g., shared Unix/Linux at a company), who can modify the OS code of Payroll, a program developed and run by single user. According to you, who should be permitted to modify the code?	07
	<b>(b)</b>	Discuss different types of faults. How would you fix them?  OR	07
	<b>(b)</b>	What is Buffer Overflow? How can you overflow the program stack? Discuss with an example	07
Q.3		Answer the following	
-	(a)	Discuss major Buffer overflow problems in Internet Information Services (IIS), the	07
		default Windows Web Server.	
	<b>(b)</b>	What is incomplete Mediation? What are the ways to resolve them?  OR	07
Q.3		Answer the following	
	(a)	Explain Clark-Wilson Commercial Security Policy	07
	<b>(b)</b>	What is separation of Duty? Describe the Multilevel Security Policy.	07
Q.4		Answer the following	
•	(a)	How SQL can be used to attack systems? Explain importance of special characters in	07
		SQL that can be used for attacks.	
	<b>(b)</b>	Discuss different ways by which vulnerabilities are introduced in the Networks.	07
		OR	-
Q.4	(a)	(1) What is a Business Communifyretantker from detail with important characteristics.	04

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	07

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Q.5		Answer the following	
	<b>(a)</b>	(1) Discuss different ways by which vulnerabilities are introduced in the Networks.	04
		(2) Differentiate Active and Passive Attacks. How does an insider attack affects the network?	03
	<b>(b)</b>	Discuss different countermeasures to Block, Prevent, and/or Defend the Network against	07
		Port Scanning.	
		OR	
Q.5		Answer the following	
	(a)	(1) What is NSLookup? Explain the Command with options	04
		(2) If you live in country A and receive a certificate signed by a government certificate	03
		authority in country B, what conditions would cause you to trust that signature as	
		authentic?	
	<b>(b)</b>	Discuss Confidentiality, Integrity and Availability for assets like Hardware, Software,	07
		Data, People and Supplies with a Matrix.	

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