		GUJARAT TECHNOLOGICAL UNIVERSITY ME – SEMESTER – II (New)– EXAMINATION – WINTER-2019	
Subject Code: 3720218 Date: 21-11-2019   Subject Name: Secure Software Design and Enterprise Computing   Time of the Date of			
IIIS		<ul><li>Attempt all questions.</li><li>Make suitable assumptions wherever necessary.</li></ul>	
Q.1	(a)	Identify and analyze any 3 software vulnerabilities in detail	07
·	(b)	List the technologies available for the presentation and describe business and data tiers of an enterprise software application	07
Q.2	(a)	Explain the working of a directory-based server infrastructure in a heterogeneous systems environment	07
	(b)	Design and build a database using an enterprise database system and mention the components at the different levels in an enterprise system <b>OR</b>	07
	<b>(b)</b>	Explain the characteristics and scope of an enterprise software applications	07
Q.3	(a)	Discuss the process of security testing.	07
-	(b)	What is server infrastructure? Describe directory-based server infrastructure in a heterogeneous systems environment.	07
Q.3	(a)	Mention the various loopholes in software security and troubleshoot a network running	07
2.0	( <b>u</b> )	multiple services,	07
	<b>(b)</b>	What is SQL injection? How are insecure exceptions and SQL injections handled?	07
Q.4	(a)	Describe the various ways to defend web and mobile applications against hackers	07
C	(b)	List the requirements of an enterprise network and explain the process of managing them.	07
Q.4	(a)	OR Design and develop a multi-tier solution to a problem using technologies used in	07
Q. <b>-</b>	(a)	enterprise system	07
	<b>(b)</b>	Explain any three security programming practices	07
Q.5	(a)	Mention the various security programming practices and explain the fundamental software security design concepts	07
	<b>(b)</b>	Explain in detail the various server resource utilization methods	07
<u> </u>		OR	0-
Q.5	(a) (b)	Explain enterprise network in detail	07 07
	(b)	Describe the various technologies applicable in Enterprise Application Development.	07

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