Seat	t No ·	Enrolment No	
Bear		GUJARAT TECHNOLOGICAL UNIVERSITY	
		M. E SEMESTER – II • EXAMINATION – SUMMER • 2014	
Subject code: 2725103			
	U	Name: Information System and Network Security	
	•	2:30 pm - 05:00 pm Total Marks: 70	
	tructio	<u> </u>	
	1.	Attempt all questions.	
		Make suitable assumptions wherever necessary.	
	3.	Figures to the right indicate full marks.	
Q.1	(a)	Explain the importance of management role in implementing information security in an organization?	07
	<b>(b)</b>	Explain briefly the steps of AES encryption process?	07
Q.2	(a)	Explain briefly the steps of DES encryption process?	07
	(b)	Explain the various risk mitigation methods?	07
		OR	
	<b>(b)</b>	Describe an information system, types and how it helps organizations?	07
Q.3	(a)	Explain the risk assessment process?	07
	<b>(b)</b>	Explain Information security and three pillars of information security?  OR	07
Q.3	(a)	Explain the Security Policies and Measures in Mobile Computing?	07
	<b>(b)</b>	Distinguish between qualitative and quantitative risk assessment method?	<b>07</b>
<b>Q.4</b>	(a)	Explain management controls?	07
	(b)	Explain in detail the classification of threats and attacks?  OR	07
<b>Q.4</b>	(a)	Explain the working of the RSA algorithms?	07
	<b>(b)</b>	Write a note on cryptography?	<b>07</b>
Q.5	(a)	Explain in detail the multilevel authorization mechanisms. List the advantages of multilevel authorization?	07
	(b)	Write a note on the security protocols?  OR	07

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Explain in detail the different layers of OSI architecture? Write a detailed note on the authentication mechanisms?

**Q.5** 

(a) (b) **07** 

**07**