Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

M. E. - SEMESTER – II • EXAMINATION – SUMMER • 2013

Subject code: 725107 **Date: 07-06-2013**

Subject Name: Security Standards and Audit

Time: 10.30 am – 01.00 pm **Total Marks: 70**

Instructions:

1. **Attempt question 1, which is compulsory and answer any four from the rest questions.**
2. **Make suitable assumptions wherever necessary.**
3. **Figures to the right hand indicate the marks.**

Q. No. 1

a. Explain the various methods of risk management. [7 Marks]

b. Describe all the phases of an audit process. [7 Marks]

Q. No. 2

a. Explain the personal abilities that an auditor should have. [7 Marks]

b. Explain the Clark-Wilson security model. [7 Marks]

Q. No. 3

a. Explain how ISO 27001 standard helps an organization in implementing information security effectively. [7 Marks]

b. Explain how HIPAA ensures the security of medical information of a patient. [7 Marks]

Q. No. 4

a. Explain how PCI-DSS ensures the security of the online credit card transactions. [7 Marks]

b. Explain COBIT framework and how it helps IT managers. [7 Marks]

Q. No. 5

a. Explain the various risks that an organization has from its email system. Discuss the way how it can be reduced. [7 Marks]

b. Explain the various auditing features available in Windows operating system. [7 Marks]

Q. No. 6

a. Explain the threats that an organization can have from its employees and how these can be managed? [7 Marks]

b. Describe the risk assessment process. [7 Marks]

Q. No. 7

a. Explain the factors that validate a threat statement with example. [7 Marks]

b. Explain the important considerations while developing security awareness training contents. Why these trainings are important? [7 Marks]

Q. No. 8

a. What are the different types of data backup methods? Explain briefly. [7 Marks]

b. What do you mean by Service Level Agreements? How they help an organization to reduce some of its risks? [7 Marks]

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