(10 Marks)

(10 Marks)

(05 Marks)

USN

Explain issue-specific security policy.

detail, business impact analysis.

by the merchant and the bank.

Eighth Semester B.E. Degree Examination, June 2012 Information and Network Security

Time: 3 hrs.

Max. Marks: 100

Note: Answer FIVE full questions, selecting atleast TWO questions from each part.

PART - A

Draw a schematic diagram showing the major steps in contingency planning. Explain in

Explain the firewall rules. (10 Marks) 2 a. (10 Marks) What is a VPN? Explain the different techniques to implement on VPN. b. Differentiate between network-based IDS and host-based IDS emphasizing on their 3 a. (08 Marks) advantages and disadvantages. With the help of a schematic diagram, explain the centralized control strategy b. (06 Marks) implementation of IDS. Enumerate the advantages and disadvantages of using honey pots. (06 Marks) What are the fundamental differences between symmetric and asymmetric encryption. 4 a. (06 Marks) (08 Marks) Explain the different categories of attacks on the cryptosystem. c. Define the following terms with relation to cryptography. i) Algorithm ii) Key iii) Plaintext v) Work factor (06 Marks) iv) Steganography vi) Key space. PART - B (04 Marks) 5 Discuss active security attacks. a. With the help of a neat diagram, explain the general format of a X.509 public key certificate. b. (06 Marks) (10 Marks) Explain the Kerberos version 4 message exchanges. (10 Marks) Explain the PGP message generation and reception processes. 6 a. (10 Marks) b. Explain the different MIME content types. (04 Marks) Mention the applications of IPsec. 7 a. Explain the security association selectors that determine an security policy database entry. (06 Marks) Draw a neat diagram of IPsec ESP format and explain. (05 Marks) (05 Marks) Mention the important features of Oakley algorithm. d. Explain the parameters that define session state and connection state in SSL. (10 Marks) 8 a. (05 Marks) Describe the SET participants. Explain the construction of dual signature in SET with a diagram. Also show its verification

2. Any revealing of identification, appeal to evaluator and /or equations written eg. 42+8 = 50, will be treated as malpractice. Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.