

Eighth Semester B.E. Degree Examination, June/July 2019 Information and Network Security

Max. Marks:100

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

PART - A

| 1 | a. | Explain the elements and components of enterprise information security policy. | (10 Marks) |
|---|----------|--|---------------|
| • | b. | What is contingency planning? Explain in detail incident response planning. | (10 Marks) |
| | 0. | The continues of parameters of the continues of the conti | , |
| 2 | a. | What is firewall? Explain the packet filtering firewall. | (08 Marks) |
| 4 | a. b. | With a neat diagram, explain the screened subnet firewall with DMZ. | (06 Marks) |
| | | What is VPN? Explain the tunnel mode of implementing a VPN. | (06 Marks) |
| | c. | What is VI IV: Explain the turner mode of implementing a VIIV. | (00 1/11/110) |
| 2 | | What is IDS? Explain network based intrusion detection system. Also | mention its |
| 3 | a. | | (08 Marks) |
| | 1. | advantages and disadvantages. Explain the signature based IDP's method used to monitor and evaluate the net | |
| | b. | Explain the signature based IDP's method used to monitor and evaluate the net | (06 Marks) |
| | C | Explain Honey pots. | (06 Marks) |
| | c. | Explain Floney pots. | (001111111) |
| | 92 | What is a water work of Develoir the version airlies mathed used to encrypt t | he plainteyt |
| 4 | a. | What is cryptography? Explain the vernam cipher method used to encrypt t | ing one time |
| | | Apply the same method to encrypt the plaintext COMPUTER SECURITY us | (08 Marks) |
| | 1. | pad INFORMATION WORLD. | (04 Marks) |
| | b. | Differentiate between symmetric and asymmetric encryption. | (04 Marks) |
| | c. | Explain the different categories of attacks on the cryptosystem. | (00 Marks) |
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| | | PART – B | |
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| 5 | a. | Define a attack? Explain the different types of active and passive attacks. | (07 Marks) |
| | b. | Explain the Kerberos version 4 message exchanges. | (08 Marks) |
| | c. | With a neat diagram, explain the various fields of X.509 certificate format. | (05 Marks) |
| | - A | | |
| 6 | a. | With a neat diagram, explain the authentication and confidentiality services | provided by |
| | | PGP. | (10 Marks) |
| | b. | Explain the different MIME content types. | (10 Marks) |
| | | | |
| 7 | a. | What is security association? Explain the different parameters associated with S. | A. (08 Marks) |
| , | b. | Explain the anti-replay mechanism. | (05 Marks) |
| | c. | E-valoin the format of a ECD market in ID consists | (07 Marks) |
| | | CMRII LIDNAM | |
| 8 | a. | With a neat diagram, explain the operation of SSL record protocol. | (08 Marks) |
| O | b. | Explain the different participants in SET system. | (06 Marks) |
| | c. | Explain the different participants in SET system. Explain the construction of dual signature in SET protocol. | (06 Marks) |
| | U. | Explain the constitution of dual signature in old process. | (|

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