

Code No: 07A60503

R07

Set No. 3

III B.Tech II Semester Regular/Supplementary Examinations, May 2010
Information Security
Computer Science And Engineering

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

1. (a) Explain about the routing applications of IPSec?
(b) Give the formats of ISAKMP header and Generic payload header? Explain various fields? [8+8]
2. (a) What are the steps involved in the SSL record protocol transmission?
(b) Explain the construction and purpose of dual signature? [8+8]
3. Explain the AES algorithm? [16]
4. (a) What is Radix-64 format? Explain how both PGP and S/MIME perform the Radix-64 conversion is performed.
(b) Describe the five principal services that Pretty Good Privacy (PGP) provides. [8+8]
5. (a) Discuss the key elements included in the model of network management used for SNMP?
(b) Explain the functional enhancements made in SNMPV2 over SNMPV1. [8+8]
6. (a) With a neat diagram explain the working principle of packet-filtering router?
(b) What is a reference monitor? What are the rules that it has to enforce? Discuss its properties? [8+8]
7. (a) Explain the route table modification vulnerability?
(b) Explain the security mechanisms? [8+8]
8. (a) Explain the procedure involved in RSA public-key encryption algorithm?
(b) Explain what Kerberos is and give its requirements. [8+8]
