

Code No: H4002/R13

M. Tech. II Semester Supplementary Examinations, May-2017

INFORMATION SECURITY

(Common to IT, CS, CS&T and CS&E)

Time: 3 Hours Max. Marks: 60 Answer any FIVE Questions All Questions Carry Equal Marks 1. Define security service. List different categories security services and explain. 6M Write notes on Routing table modification and ARP attacks. b 6M 2. a Given Cipher text "YMJTYMJWXNIJTKXNQJSHK", knowing the message is 6M encrypted by Caesar cipher and k=5. Try to decrypt the message. b Explain about various key distribution approaches of message authentication. 6M 3. a Explain the importance of Kerberos and give its requirements. 6M Explain the procedure involved in RSA public-key encryption algorithm. 6M 4. Discuss about encapsulating security payload of IP? 6M a Show how the S/MIME certification process is carried out. 6M 5. a What are the different types of viruses? How do they get into the systems? 6M Evaluate how firewall is different from intrusion detection system? 6M 6. a Explain symmetric cipher model with neat block diagram. 6M Explain any two cipher block modes of operations in detail. 6M Explain in detail Digital Signature Standard approach and its algorithm 7. 6M What is the use of SSL protocol? Explain SSL record protocol operation with SSL 6M record format. a Explain the need for trusted systems. 6M Write notes on SNMPv1 6M
