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.	a	Define security service. List different categories security services and explain.	6M
	b	Write notes on Routing table modification and ARP attacks.	6M
2.	a	Given Cipher text "YMJTYMJWXNIJTKXNQJSHK", knowing the message is encrypted by Caesar cipher and k=5. Try to decrypt the message.	6M
	b	Explain about various key distribution approaches of message authentication.	6M
3.	a	Explain the importance of Kerberos and give its requirements.	6M
	b	Explain the procedure involved in RSA public-key encryption algorithm.	6M
4.	a	Discuss about encapsulating security payload of IP?	6M
	b	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
	b	Evaluate how firewall is different from intrusion detection system?	6M
6.	a	Explain symmetric cipher model with neat block diagram.	6M
	b	Explain any two cipher block modes of operations in detail.	6M
7.	a	Explain in detail Digital Signature Standard approach and its algorithm	6M
	b	What is the use of SSL protocol? Explain SSL record protocol operation with SSL record format.	6M
8.	a	Explain the need for trusted systems.	6M
	b	Write notes on SNMPv1	6M

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