**Hope Foundation’s,**

**FINOLEX ACADEMY OF MANAGEMENT AND TECHNOLOGY, RATNAGIRI**

**DEPARTMENT OF INFORMATION TECHNOLOGY**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Subject:** | **CRYPTOGRAPHY AND NETWORK SECURITY** | | | |
| **Class:** | **TE IT / Semester – V (CBCGS) / Academic year: 2018-19** | | | |
| **Name of Student:** | **Kazi Jawwad A Rahim** | | | |
| **Roll No:** | **32** | | **Date of performance(DOP) :** |  |
| **Theory Assignment No.** | | **02** | **Date of checking(DOC) :** |  |
| **Marks:** | | **/20** | **Teacher’s Signature:** |  |

|  |  |  |
| --- | --- | --- |
|  | **Attempt all the questions** | **Module** |
|  | Describe the various servers of Kerberos and explain the duties of each server. Write the sequence of message exchanges that happens. | M6 |
|  | Describe Online shopping site attacks. List Methods to overcome them. | M5 |
|  | List the different type of virus. What are the typical phases of operation of a virus or worm and how does virus blocking software work. | M5 |
|  | What is firewall? Describe each type of firewall in detail. | M5 |
|  | Describe how Authentication Header (AH) and ESP is used in transport and tunnel modes in IPSec Protocol. | M6 |
|  | Why is the segmentation and reassembly function in PGP needed? How does PGP use the concept of trust? | M6 |
|  | Explain the format of X.509 certificate showing the important element of the certificate. | M5 |
|  | What is S/MIME? Why it is used? Explain main function of S/MIME provided? | M6 |
|  | Compare IDS and Honeypot. | M5 |
|  | List TCP/IP vulnerabilities at each layer. | M5 |
|  | Describe Needham Schroeder Authentication with steps. | M4 |
|  | Write a short note on any one Digital Signature Scheme – RSA, El Gamal, DSS. | M4 |
|  | Describe steps of TCP SYN FLOOD attack. Is it similar to Smurf Attack? How is it different from Ping Attack? | M5 |
|  | Which is more dangerous- DOS or DDOS? Elaborate with example. | M5 |