JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT TEST -2 EXAMINATIONS-2022

M.Tech-II Semester (ECE)

COURSE CODE (CREDITS): 21M11EC213 (3)

MAX. MARKS: 25

COURSE NAME: Network Security Protocols

COURSE INSTRUCTORS: Dr. Sunil Datt Sharma

MAX. TIME: 1 Hour 30 Min

Note: All questions are compulsory. Marks are indicated against each question in square brackets.

- Q1. A cryptographic system, which is being increasingly used to fight off this massive invasion of individual privacy and security, guarantee data integrity and confidentiality, and to bring trust in global e-commerce. Explain the four essential components of this system. (04)
- Q2. Write and discuss the steps which are useful to form the digital signature with help of the combination of public-key encryption and a one-way secure hash function. (05)
- Q3. Define the tool which is used to protect the private network from bad network. Also, write its two basic security functions and commonly used security policies (06)
- Q4. Write the five limitations of firewall which are going to be responsible for the obsolete of this technology and the development of IPSec technology. (05)
- Q5. What do you understand by vulnerability and system vulnerability? Discuss four sources of system vulnerabilities. (05)