Dr. Hemrat sam;

Roll. No:	
-----------	--

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT TEST -II EXAMINATION- October 2019

M.Tech. Ist Semester

COURSE CODE: 10M1WCI131

MAX. MARKS: 25

COURSE NAME: System and Network Security Techniques

COURSE CREDITS: 3

MAX. TIME: 1.5 Hr

Note: All questions are compulsory. Carrying of mobile phone during examinations will be treated

Que.1: [5 Marks; CO3] Define the blockchain framework. How a blockchain solution for preserving the privacy of vehicles against the tracking attack is to be designed? Provide its comparison to the traditional solution.

Que.2: **[5 Marks; CO3]** What are the limitations in the deployment of jumbo frame sizes beyond 9000 bytes for storage systems which is limited by 32-bit Cyclic Redundancy Checks used by a network protocol? Also, provide the detailed overview of CRC algorithms.

Que.3: [5 Marks; CO3] What is firewall? Explain its various types and their advantages and disadvantages in detail.

Que.4: [5 Marks; CO3] Explain the Decisional Diffie-Hellman Problem. Provide a signature scheme based on DDH.

Que.5: [5 Marks: (03] Define the following terms:

- a. DMZ
- b. LEAP
- c. Extranets
- d. Cross-site Scripting
- e. L2TP