Que.1) write short note on :-

a) VPN diagram

VPN is a mechanism of employing authentication integrity protection and encryption in order to transmit data on a public network in a secured way as to be a private network. It can connect distant networks of an organization. Thus it simulates a private network over a public network.

Virtual signifies that it depends on a virtual connection which are temporary and have no physical presence or significance.

b) Client configuration.

The client configuration is designed to allow the client to specify one or more endpoint each with its own name, address and contract, with each referencing the <binding> and <behaviour> elements in the client configuration to be used to configure that endpoint.

c) Exchanging keys

As VPN needs strong authentication and

provides security using encryption so there is always a need of exchange of encryption keys. As information encryption with public key can only be decrypted with private key while encryption with private key cannot be decrypted with public key.

**Qu 2:) What is the main aim of VPN?**

**Ans:-)**

- **Encryption of your IP address:** The primary job of a VPN is to hide your IP address from your ISP and other third parties.

- **Encryption of protocols:** A VPN should also prevent you from leaving traces for

- **kill switch:** If your VPN connection is suddenly interrupted, your secure will also be interrupted.

- **Two-factor authentication:** By using a variety of authentication methods, a strong VPN checks everyone who tries to log in.

**Que 1: Write notes on:**

### a) Server disaster

A server disaster is more harmful as compared to network disaster because in server disaster the information loss is very common. Once your network is disaster resistant it does not mean that communication may not fail. If your server fails, through the network is operation but all its control along with data is lost. So server should not only be protected highly for disasters but there should be proper plans to make is disaster resistant.

### b) UPS

When your computer is working as server, the power is one of the most important factor. A good power source must protect your system from backup, brownout, power surge, spikes, noise, frequency variation, harmonic distortions etc. An uninterruptible power supply (UPS) provides all these protections to your system.