Q1:- Ans:- Working of ICMP:-

It is used by a device like a router, for communicating with source of a data packet about transmission issues, for example if a datagram is not ~~delivered~~ delivered, ICMP might report this back to the host with details, that might help to locate where transmission went wrong.

Its a protocol that believes in direct communication in the workplace, unlike the Internet protocol (IP) is not associated with a transport layer protocol such as TCP or UDP. This makes ICMP a connectionless protocol. One ~~device~~ device does not need to open a connection with another device before sending an ICMP message.

Services of an ICMP:-

The primary purpose of ICMP is for error reporting. When two devices connect over the internet, the ICMP generates errors to store with the ~~sending~~ sending device in the event that any of the data did not get to its intended destination.

ICMP Protocol is basically to perform network diagnostics. The commonly used terminal utilities to to traceroute and ping both ~~are~~ using ICMP. The traceroute utility is used to display the routing path between two inter-net devices.

Q2:- Ans:- Services of BNMP:-

SNMP is a way for different devices on a network to share information with one another. It allows devices to communicate even if the devices are different hardware and on different software without a Protocol like SNMP, there would be no way for network management tools to identify devices.

SNMP client-servers architecture has the three following components.

- An SNMP components
- An SNMP managers
- An SNMP agent.

Working of SNMP:-

All day traffic is flowing accross your network device ability for example:- bytes, packets and errors. & transmitted and recieved on a router, connection speed between devices or the number of hits a web server recieves.

SNMP works by sending messages, called protocal data units to devices within your network that speak SNMP. These messages are called SNMP Get-Requests. TCP and other types of probes for network performance metrics. When thresholds for certain values are exceeded, software can atleast system administrates of the issue allowing them to drill into the data and troubleshoot a solution: