

## **Chapter 2 The Internet and its service**

### **1) What is internet? Write the role and importance of internet in today's world?**

Ans: Internet is a world's largest computer network connecting millions and billions of computer together in a common protocol TCP/IP for communication.

### **2) What is the role of TCP/IP in internet?**

Ans: Transmission Control Protocol in internet is a communication protocol which is responsible for dividing the file/ messages into the packets on the source computer and also resembles the received packets at the destination computer.

Internet protocol is responsible for handling the address of destination computer so that each received packet is sent to the destination computer.

### **3) List the major services provided by internet?**

Ans: Following are the major services provided by internet:

- 1) WWW
- 2) E-mail
- 3) Chat
- 4) E-fax
- 5) Internet telephony
- 6) Video conference
- 7) E-commerce

### **4) List any two advantages and two disadvantages of internet?**

Ans: The advantage of internet are:

1. It provides global communication.
2. It is faster and cheaper mean of communication.

The disadvantage of internet are:

1. It's initial cost is high for set up.
2. It increases cyber crimes.

### **5) What are the difference types of internet accounts?**

Ans: There are two types of internet connection account available which are as follows:

- a) TCP/IP: This is the text and graphics based account in which the user can view graphics and photographs along with the text.
- b) Shell account: This is text based user interface account in which the user cannot view any graphic or photographic images.

### **6) List the different equipment required for connecting internet?**

Ans: They are:

- 1) Multimedia computer system
- 2) Modem
- 3) Telephone line
- 4) ISP account
- 5) Internet software

### **7) Define website with suitable examples?**

Ans: Website is the collection of several related web pages with hypertext created by any business organization / university etc. to provide their information worldwide through the internet.

Examples: [www.google.com](http://www.google.com)

[www.youtube.com](http://www.youtube.com)

[www.facebook.com](http://www.facebook.com)

### **8) List the applications (uses) of internet in different fields?**

Ans: The following are the main applications of internet:

- i) Business: To provide access to complex and huge databases.
- ii) Entertainment: To provide audio, video communications online chatting etc.
- iii) Education: To provide online education, interactive classes etc.
- iv) Individuals: To make global communication, use e-governance facility etc.

### **9) What is web browser? Write any two browser software?**

Ans: Web browser or browser software are the special software program which are used to run (surf) internet making all the related information and facilities available for the users.

The following are the popular web browsers:

- i) Microsoft Internet Explorer
- ii) Mozilla Firefox
- iii) Google Chrome
- iv) Opera mini

### **10) What is URL? Write its main parts with meaning?**

Ans: Uniform Resource Locator is an unique address of each website for its identification which contains protocol, domain name, domain type etc.

Example: <https://www.google.com>.np

Here,

https = protocol

www = host computer name

google = domain name

.com = domain type (i.e. commercial)

.np = Nepal (country code)

### **11) Define ISP and write any two popular ISPs of Nepal?**

Ans: Internet Service Provider is an organization that offers and provides the necessary internet related services and access to the user or customers.

Some of the popular ISPs of Nepal are:

i) World Link    ii) Board Link    iii) NTC etc.

### **12) What is search engine? List any four popular search engines?**

Ans: Search engines are the interactive tool or software which help people to locate and find the required websites and information via www. The following are the popular search engine names.

i) Google.com    ii) Yahoo.com

iii) Altabista.com    iv) Bing.com etc.

### **13) Write short notes on the following internet related terms?**

i) Webpage:

Webpage is a collection of hypertext information of any organization, company, government agency or individuals stored in the website. It is also known as single page of website.

ii) WWW:

It is service of internet that is a site on which the web pages are kept. It is a program that responds to request from web browser to relative resources.

iii) Web server:

Web server is a site on which the web pages are kept. It is a program that respond to request from web browser to relative resources.

iv) Domain name: It is the name of a specific internet area controlled by any organization, company or government.

v) HTTP: It is protocol that is used by web server and web clients to communicate with each other.

vi) FTP: It is the protocol or tool that allows the user or host to transfer files on one computer to another over a network. It also allows the user to upload and download the files.

vii) Chat: It is program that allow a user on the internet to communicate textually with each other by typing in real time situation.

viii) Upload: It is the process of uploading files, documents, data, program etc. from user computer to the internet server.

ix) Download: It is the process of copying files, documents program, data etc from the internet server to the user's computer.

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Ans: Electronic commerce is an internet service which allows doing online business. It also allows to buy and sell goods and products through internet.

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The following are the popular e-commerce sites:

i) [www.kinmel.com](http://www.kinmel.com)

ii) [www.sastobazar.com](http://www.sastobazar.com)

iii) [www.muncha.com](http://www.muncha.com)

iv) [www.amazon.com](http://www.amazon.com)

**16) What do you mean by intranet?**

Ans: Intranet is also a network bu internal (private) network which utilize all the rules and regulation of the internet to provide facility to local area network.

**17) What is E-main? Explain the parts of E-mail address?**

Ans: The full form of e-mail is electronic mail. It is a process of sending and receiving message electronically through internet.

E-mail address:

E-mail is identified by an unique address called e-mail address. Basically an e-mail address has five parts.

Example: [parbin@gmail.com.np](mailto:parbin@gmail.com.np)

Parbin = username

Gmail = e-mail program which provide e-mail service.

@ = at sign separate username and domain name.

.com = domain type (i.e. commercial organization)

.np = country code (i.e. Nepal)

**18) Write the advantage of e-mail?**

Ans: The advantage of e-mail are:

- 1) It is the cheapest and fastest means of communication.
- 2) It is more reliable than other means.
- 3) It can be used from any part of the world at any time.
- 4) It supports pictures, graphic, image etc beside the text.

5) Single mail can be sent to different mail address.

**19) What do you mean by E-fax?**

Ans: It stands for electronic fax. It is a powerful internet application that allows us to send and receive faxes directly on our computer.

**20) Define the following internet service:**

i) Telnet:

Telecommunication Network is an internet service that enables to connect a remote or host computer so that an user can enter data, run programs and transfer the required files as needed.

ii) Usenet/newsgroup:

It stands for user net service which allows the user from different geographical location to share their views on any topic of interest. It is also known as newsgroup or discussion group.

iii) Internet Telephony:

Internet telephony refers to the use of public internet for voice transmission. It is also known as Voice Over Internet Protocol.

iv) Video Conferencing:

It is also one of the very interesting and useful internet service gaining popularity nowadays which allows to make an audio and video communication across the world using web camera and related software.

**21) Write the difference between the following?**

(i) E-mail and E-fax

Ans: The difference between the e-mail and e-fax are:

E-mail	E-fax
i) It is cheaper than e-fax.	i) It is responsive than e-mail.
ii) E-mail message first goes to local server.	ii) E-faxed message first goes to the internet server then its destination.
iii) E-mailed message is stored in hard disk of the destination computer (server).	iii) E-faxed message is printed on the printer of the destination computer.

ii) Postal mail and E-mail.

Internet	Intranet
i) It is public global network.	i) It is very much faster than postal mail.
ii) In postal mail, only the specific type of hand writing and style is used.	ii) In email any type of font and graphics can be used.
iii) It is not reliable.	iii) It is fully reliable.
iv) It does not support attachment.	iv) It supports document attachment.

iii) Internet and Intranet

Internet	Intranet
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i) It is public global network.	i) It is private network.
ii) It is independent to use the services and resources.	ii) It is dependent to use all the resources.
iii) It runs slower than intranet.	iii) It runs faster than internet.

21) Write the full form of the following:

ARPA – Advance Research Project Agency

CERN – European Centre for Nuclear Research

DARPA – Defense Advanced Research Project Agency

E-mail – Electronic mail

FAQ – Frequently Asked Questions

FTP – File Transfer Protocol

HTML – Hyper Text Transfer Protocol

IAB – Internet Architecture Board

IETF – Internet Engineering Task Force

INIC – Internet Network Information Center

IRC – Internet Relay Chat

ISO – International Standard Organization

ISoc – Internet Society

ISP – Internet Service Provider

MILNET –Military Network

NCP – Network Control Protocol

NSF Net – National Scientific Foundation Network

OSI – Open System Interconnection

PERL – Practical Extraction and Reporting Language

POP – Post Office Protocol

PPP – Point to Point Protocol

SMTP – Simple Mail Transfer Protocol

TCP/IP – Transmission Control Protocol / Internet Protocol

TELNET – Telecommunication Network / Terminal Emulation Network

URL – Uniform Resource Locator