INFORMATION AND COMMUNICATION TECHNOLOGY SKILLS

Class IX , Ch-3 Information and Communication Technology Skills: I (IT #402)

Session 7: Communication and Networking

— Basics of Internet

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The students will be able to:

❏ Describe the various uses of Internet;

❏ Identify the types of internet connections;

❏ Describe the meaning of bandwidth; and

❏ Search information on the Internet.

Introduction

The Internet is a huge network of computers around the world. Using the Internet you can get any information that is stored in a web page on the World Wide Web. You can do all this by connecting your computer to the Internet. With the help of the Internet, you can gather a lot of knowledge, but you need to access the information from authentic or reliable sources

Uses of the Internet
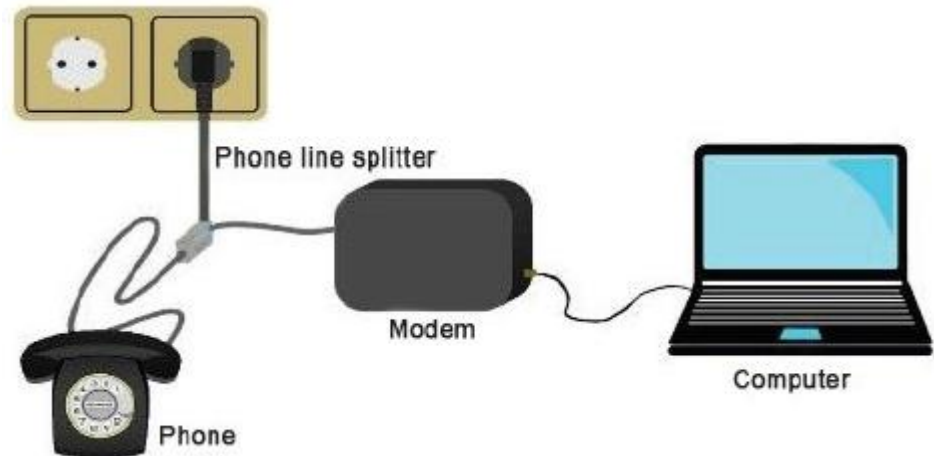
❑ There is no limit to what you can do online, but some of the most common uses are given in the Table.

Google	**Search information:** You can get the latest information about anything that is uploaded on the web, whether it is result, news about an earthquake, a cricket match or the election details.		**Shopping:** You can buy and sell products, such as books and electronic goods over the Internet. You can also pay for these products via digital modes of payments, such as wallets, plastic cardsor through e-banking.
	Entertainment: You can listen to music, play games, watch movies or share pictures.	ticket	**Online booking:** You can book movie tickets, hotels, bus/train/plane tickets, etc., online.
	E-mail and chatting: You can talk or send messages to people all around the world quickly and easily. The messages you send over the Internet can reach any part of world in just a few seconds. For example, Gmail and Outlook.	learn	**Online learning:** There are a number of courses available online—some are free while others are not. You can do a course on a topic you like or want to know more about.
	Social networking: You can share your interests, knowledge and stories with your family and friends around the world. For example, Facebook and Twitter.	BANK	**Online banking:** You can do banking operations, like checking details of your bank account or transferring money from one account to another through mobile banking/NEFT/RTGS.

Connecting to the Internet

❑ To connect to the Internet, you need a device, such as a computer, laptop or mobile and a connection device, i.e., a modem.

❑ The **Internet Service Provider (ISP)** i.e., the telephone company, provides the Internet connectivity using the phone lines or a wireless network.
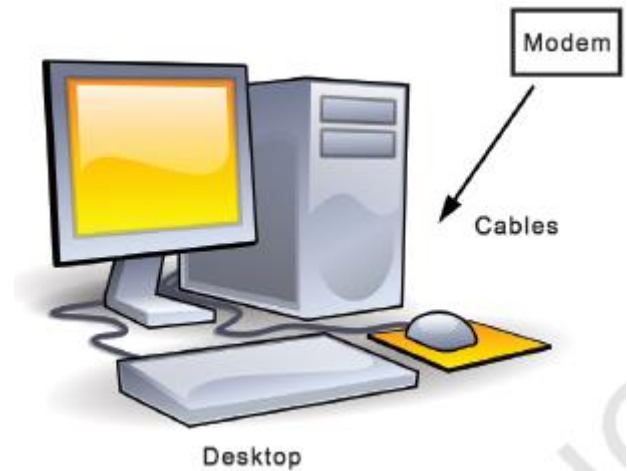

Connecting to the Internet

Types of Internet Connections

a) **Wired connections:** When our computer is connected to the Internet using a wire, it is called a wired connection. We use Ethernet cables (cables used for connecting to the Internet) to connect to the modem which connects to the ISP using a phone line.

Wired connection

b) **Wireless connection:** You can also connect your computer to the Internet using wireless technology. Laptops need a wireless Internet card to connect to a modem without using any cables.

Wireless connection

Bandwidth

- Bandwidth is the amount of data that can be transmitted over a network in a certain amount of time. To understand bandwidth, Let us take the example of a pipe, the amount of water flowing through a pipe depends on its thickness.

- Similarly, the amount of data that your network can receive or send depends on its bandwidth. In case of digital devices, the bandwidth is usually expressed in bits per second (bps) or bytes per second and in case of analog devices, the bandwidth is expressed in cycles per second, or Hertz (Hz).

- Data transfer speed over the networks (including the internet) is calculated in terms of bits per second.

  ❖ 1 Kbps (kilobits per second) = 1000 bits per second

  ❖ 1 Mbps (megabits per second) = 1000 kilo bits per second

  ❖ 1 Gbps (gigabits per second) = 1,000 mega bits per second

Internet Browser

- An Internet Browser is used to see the information on the various websites.

- An Internet Browser is an application or a software program on your computer or laptop which helps you visit the various websites.

- Some examples of browsers are Google Chrome, Mozilla Firefox and Internet Explorer.

Some Internet Browsers

Internet Browser

Perform the following to search for information on the Internet Browser

- Open an Internet browser.

- Type the topic, on which you want information in the **search box** and hit the **Enter key**.

- The search result, having the required information will be displayed.

A Quick Recap Of This Session

In this session, you have learnt about the various uses of Internet, types of internet connections and the meaning of bandwidth. You have also learnt about how you can search information on the Internet.

A. Multiple choice questions

1. To connect to the Internet, the computer has to be connected to the _____.

    a) Internet Society

    b) Internet Architecture

    c) Internet Service Provider

    d) Large Area Network

2. What is the Internet?

    a) Phone connections

    b) Collection of computer networks

    c) Network of computers in an office

    d) None of the above

B. Short answer question

1. Write a short note on the uses of internet.

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