**PROGRAM BACHELOR OF COMPUTER APPLICATIONS (BCA)**

**SEMESTER III**

**COURSE CODE & NAME DCA2104 – BASIC OF DATA COMMUNICATIONS**

**Set – I**

**1. Describe various trends in data communications and network technology. Explain Communication model in brief.**

**Ans:** Data Communications and Networking for today’s Enterprise It is important for any enterprise to have effective and efficient data communication and networking. In this section, you will be introduced to the trends that are increasing the challenge for the business manager in planning and managing.

**Trends**

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**2. List some difference base band and broadband transmission with some examples?**

**Ans:**

|  |  |  |
| --- | --- | --- |
| **Factor** | **Baseband** | **Broadband** |
| **The signal used for** **Transmission.** | The baseband transmits the digital signal using the physical medium like wires. | The broadband transmits the analog signals using optical fibers and twisted cables as a medium of transmission. |

**3. Differentiate between guided and unguided transmission and with some examples?**

**Ans**: **Guided transmission**

In guided transmission media, you can see a cabling system that guides the data signals along a specific path. Guided media provides a guided path for propagation of signals. Twisted pairs, coaxial cables, optical fibers etc.are some of the examples for guided media.

**Unguided transmission**

Unguided transmission media consists of a means for the data signals to travel but nothing to guide them along a specific path. Unguided media employs an antenna for transmitting through air, vacuum or

**Set – II**

**4. Explain different error detecting codes? Explain different Bluetooth layers.**

**Ans:** The most popular error correcting methods are:

**1. Automatic Repeat Request (ARQ)**

**2. Forward Error Correction (FEC)**

**3. Hamming Code**

We will look only at the Automatic Repeat Request (ARQ) and Hamming code methods.

Automatic Repeat Request (ARQ)

A.R.Q. stands for

**5. Write short on synchronous and asynchronous transmission.**

**Ans:** The term synchronous is used to describe a continuous and consistent timed transfer of data blocks.

These types of connections are used when large amounts of data must be transferred very quickly from one location to the other. The speed of the synchronous connection is attained by transferring data in large

**6. Differentiate between frequency hopping spread spectrum and direct sequence spread spectrum**

**Ans:**

|  |  |  |
| --- | --- | --- |
| **S.no** | **FHSS (Frequency hopping spread spectrum)** | **DSSS (Direct sequence spread spectrum** |
| **1.** | FH systems use a radio carrier that “hops” from frequency to frequency in a pattern known to both transmitter and receiver | DS systems use a carrier that remains fixed to a specific frequency band. |