**SESSION DECEMBER 2022**

**PROGRAM BCA**

**SEMESTER III**

**COURSE CODE &amp; NAME DCA2104 &amp; BASIC OF DATA COMMUNICATION**

**SET-I**

**1. Explain the seven layers of OSI model.**

**Ans:** The reference model, Open Systems Interconnection (OSI) was developed by international standardization organization (ISO) as a model for a computer protocol architecture and as a framework for developing protocol standards. The OSI model consists of seven layers.

**They are:**

1.

**2. Explain the structure of circuit switches.**

**Ans: Structure of Circuit Switches**

The space division switch or the time division switches are the circuit switches.

**Space-division switch** In space division switching, the paths in the circuit are separated from one another with regard to space. This was originally designed to use in analog networks but is currently used in both analog

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**3. Differentiate between guided and unguided transmission.**

## Ans: Difference between Guided and Unguided Media

**SET-II**

**4. Describe frequency division multiplexing.**

**Ans: Frequency division multiplexing (FDM)** is a method of transmission in which numerous signals are combined on a single communication line or channel. A different frequency is assigned to each signal within the main channel. FDM is used when the useful bandwidth of the transmission medium exceeds the required bandwidth of signals to be transmitted. A

**5. Explain the advantages and disadvantages of CDMA.**

**Ans: Advantages of CDMA**

• Efficient practical utilization of fixed frequency spectrum

• Many users of CDMA use the same frequency, TDD or FDD may be used

• Flexible

**6. Describe IEEE standards.**

**Ans:** The relationship of the 802 Standard to the traditional OSI model is shown in the figure 1. The IEEE (Institute of