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| **SESSION** | **MAY 2023** |
| **PROGRAM** | **BCA** |
| **SEMESTER** | **III** |
| **course CODE & NAME** | **DCA2104, BASICS OF DATA COMMUNICATION** |
| **CREDITS** | **4** |

**Set-I**

**1. Describe trends in data communication and networking technology.**

**Ans:** Data communication and networking technology is continually evolving to meet the increasing demands of modern society. Several trends have emerged in recent years that are shaping the

**2. Describe standardization within a protocol architecture.**

**Ans: Standardization** within protocol architecture refers to the process of developing and implementing agreed-upon rules and specifications for various aspects of a communication protocol.

These

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**3. 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

**Set-II**

**4. Explain wavelength division multiplexing.**

**Ans: Wavelength Division Multiplexing** (WDM) is a technology used in fiber-optic communication systems to transmit multiple optical signals simultaneously over a single optical fiber.

It achieves this by dividing the available optical spectrum into multiple channels, each using a different wavelength of

**5. Describe Stop-and-wait automatic repeat request.**

**Ans:** Stop-and-Wait Automatic Repeat Request (ARQ) is a simple error control protocol used in communication systems to ensure reliable transmission of data over unreliable channels.

It operates by transmitting a single data frame at a time and waiting for an acknowledgment (ACK) or

**6. Describe IEEE802.11 addressing mechanism.**

**Ans:** The IEEE 802.11 standard, also known as Wi-Fi, defines the specifications for wireless local area network (WLAN) communication. Within this standard, there are different addressing mechanisms used for various purposes.

**Here's an overview**