**SESSION DECEMBER 2022**

**PROGRAM BCA**

**SEMESTER IV**

**COURSE CODE &amp; NAME DCA2201/ COMPUTER NETWORKING**

**CREDITS 4**

**SET-I**

**1. Define Network edge. Explain OSI reference model.**

**Ans:** We are now going to explain about the components of the Internet. We begin in this section at the edge of the network and look at the components with which we are most familiar, the computers (e.g., PCs and workstations) that we use on a daily basis.

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**2. Differentiate between Byte-oriented protocols and Bit- oriented protocols. Explain different error detecting codes.**

**Ans: Bit Oriented Protocol –**

->A synchronous communications protocol requiring only a single bit to communicate a command signal to the target station. Bit-oriented protocols transmit information without regard to character boundaries and thus handle all types of information images.   
  
->Bit-oriented protocols are much less overhead-intensive, as compared to byte-oriented protocols, also known as character-oriented protocols. Bit-oriented protocols are usually full-duplex (FDX) and operate over dedicated

**3. Write a short notes on shortest path algorithm and flooding. Differentiate between multicasts and broadcast routing.**

**Ans:** The concept behind the shortest path algorithm is to build a graph of network in which each node represents a router and each edge of the graph represents a communication line or link. To find a route between a pair of nodes, algorithm finds the shortest path between them on the graph. The shortest path can be found by measuring the number of hops. Another metric is

**SET-II**

**4. Describe process to process delivery. Explain TCP connection establishment and connection release.**

**Ans: A process** (a program in execution is known as a process) is assigned a process identifier number (process ID), which is likely to be different each time the process is started. Process IDs differ between operating system platforms; thus they are not uniform. A server process can have multiple

**5. Describe SMTP. Explain HTTP request and response messages.**

**Ans: Simple Mail Transfer Protocol (SMTP)** The basic Internet mail protocols provide mail and message exchange between TCP/IP hosts, but generally require that data be represented as 7-bit ASCII text. Because this can be restrictive, facilities have been added for the transmission of data that cannot be represented in this manner. Simple Mail Transfer Protocol (SMTP) is a standard for the exchange of mail between two computers, which specified the protocol used to send

**6. Describe Virtual Private Networks. Write short notes on web security.**

**Ans: Virtual Private Networks** Many companies have offices located over many cities. Earlier, before public data networks, such companies leased lines from telephone companies for all of their locations. This type of network which is built up from company computers and leased telephone