

**2021**  
**B.A./B.Sc.**  
**Third Semester**  
CORE – 7  
**COMPUTER SCIENCE**  
*Course Code: CSC 3.31*  
(Computer Networks)

**PART-B**  
Total Mark: 30

*Answer the following questions.*

1. (a) Explain the various components of the Uniform Resource Locator. 3  
(b) What are the various advantages of electronic mail? 3
  2. (a) What is the maximum bit rate of a noiseless channel with a bandwidth of 3500 Hz transmitting a signal with two signal levels? 3  
(b) How is circuit switching different from packet switching? 3
  3. (a) Explain the different types of routing techniques. 3  
(b) What are advantages and disadvantages of the Digital Subscriber Line? 3
  4. (a) Explain the TCP three-way handshake process. 3  
(b) Explain the flow control methods in the transport layer. 3
  5. Explain the TCP/IP reference model in detail. 6
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