

18CS504

Hall Ticket Number:

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III/IV B.Tech (Regular) DEGREE EXAMINATION

February, 2021

Computer Science & Engineering

Fifth Semester

Computer Networks

Time: Three Hours

Maximum : 50 Marks

Answer ALL Questions from PART-A.

(1X10 = 10 Marks)

Answer ANY FOUR questions from PART-B.

(4X10=40 Marks)

Part - A

(1X10=10 Marks)

- 1 Answer all questions
 - a) Define Protocol.
 - b) What are the services provided by Data Link Layer?
 - c) What is Data Communication System?
 - d) What is store and forward switching?
 - e) What is the Purpose of flooding?
 - f) Define congestion.
 - g) Write the differences between IP address and port number.
 - h) What is the purpose of ICMP?
 - i) Differentiate TCP and UDP.
 - j) What is DNS?

Part - B

- 2
 - a) Explain about the components of a Data Communication System? 5M
 - b) Write about Data Communication Tasks? 5M
- 3 Explain in detail about the OSI Reference Model? 10M
- 4 What is Flow Control? Explain about Stop & Wait and Sliding Window Flow Control Mechanisms. 10M
- 5
 - a) Discuss about Congestion Control in Virtual-Circuit Subnets. 5M
 - b) Explain about Hierarchal Routing? 5M
- 6
 - a) Explain about Leaky Bucket Algorithm? 5M
 - b) Explain about Token Bucket Algorithm? 5M
- 7
 - a) Explain about IPV4 Header format. 5M
 - b) Explain about Internet Control Protocols. 5M
- 8 Discuss in detailed about the TCP Segment Header? 10M
- 9
 - a). Discuss about Name spaces in DNS? 5M
 - b). Discuss about Resource Records in DNS? 5M