



GOVERNMENT COLLEGE OF ENGINEERING, JALGAON

(An Autonomous Institute of Government of Maharashtra)

National Highway No.6, JALGAON – 425 002

Phone No.: 0257-2281522

Fax No.: 0257-2281319

Website : www.gcoej.ac.in

E-mail : princoej@rediffmail.com



Name of Examination : **Summer 2021** - (Preview)

Course Code & Course Name : **ET451 - Computer Network and Communication**

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Maximum Marks : **60**

Duration : **3 Hrs**

[Edit](#) [Print](#) [View Answer Key](#) [Close](#) **Answer Key Submission Type:** Marking scheme with model answers and solutions of numerical

Instructions:

1. All questions are compulsory.
2. Illustrate your answer with suitable figures/sketches wherever necessary.
3. Assume suitable additional data; if required.
4. Use of logarithmic table, drawing instruments and non programmable calculators is allowed.
5. Figures to the right indicate full marks.

- 1) Solve any Two
 - a) Explain CSMA/CD protocol with the help of diagram. [6]
 - b) Draw and explain the TCP Header Format. [6]
 - c) Explain IPV4 Header format with diagram [6]
- 2) Solve any Two
 - a) Explain various design issues of data link layer. [6]
 - b) Explain any one type of Congestion Control Algorithm in detail. [6]
 - c) Explain Go-back n protocol in detail. [6]
- 3) Solve any Two
 - a) Explain Congestion prevention Policies in detail. [6]
 - b) Explain ARP & Reverse ARP. [6]
 - c) Compare Virtual Circuit and datagram Subnet. [6]
- 4) Solve all sub question
 - a) Draw the neat structure of ISO OSI Model and explain the functionalities of layers. [8]
 - b) Write note on i) VoIP ii) Cryptography [8]
 - c) What is Routing ? Why it is essential? Explain shortest path Routing algorithm in detail. [8]

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