NATIONAL INSTITUTE OF TECHNOLOGY PATNA
Department of Electronics and Communication Engineering
MID SEMESTER EXAMINATION, Jul-Dec 2022

VII Semester Regular Examination: October 2022	
SUBJECT NAME: Computer Communications	**SUBJECT CODE: OE05111**
BRANCH: Open Elective	
Time: 02 Hours	
Max Marks: 20	

Instructions:
1. All questions are compulsory
2. Assume any suitable data if necessary
3. The CO (Course Outcome) and Level (from Bloom's Taxonomy) related to questions are given in the left-hand side and Marks are mentioned on the right-hand side margin.

Q No.	CO	Level	Questions	Marks
Q1	CO1, CO5	1,2	Define Congestion Control. Explain approaches for Congestion Control in Virtual-Circuit Subnets.	4
Q2	CO1, CO5	1,2,6	Briefly explain Network Layer Design issues.	3
Q3	CO5	1,2,3,4	Briefly explain TCP Timer Management.	4
Q4	CO4, CO5	1,2,3,4	Explain Optimality Principle in details with a suitable example.	3
Q5	CO1, CO2, CO3, CO4, CO5	1,2,4	List out the following comparison between- (Any 3) i) Connection-less and Connection-oriented Services ii) TCP and UDP iii)OSI and TCP/IP models iv)LAN, MAN and WAN v) IPv4 and IPv6	3
Q8	CO1, CO4, CO5	1,2	Write short notes on following: (Any 3) i) Multiplexing ii) Border Gateway Protocol (BGP) iii)Remote Procedure Call iv)Hierarchical Routing v) Fragmentation	3