

VELAMMAL INSTITUTE OF TECHNOLOGY, CHENNAI- 601204

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ASSIGNMENT QUESTIONS

Academic Year	2018-2019		
Batch	2016-2020		
Year/Semester/se	II/III/A		
Subject Code-Title	CS6551-COMPUTER NETWORKS		
Name of the Instructor	Mr. B.V.Santhosh Krishna	Dept	ECE

Assignment No: 1 Total marks:20				
Date of Issue: 11/01/2019		Date of Submission: 24/01/2019		
Sl.No	Assignment Questions	K Level	CO	Marks
1.	Plan the message that should be transmitted using polynomial long division and predict the occurrence of errors in the receiver, such that we want to transmit the message $M = 1\ 1\ 1\ 0\ 1\ 1$ with divisor bit as $C = 1\ 1\ 0\ 1$ whose polynomial is given by $C(x) = x^3+x^2+1$. Answer Key: 111011110 (5)	Apply	CO1	5
2.	Identify and compare Stop and Wait ARQ scheme with sliding window ARQ scheme. Answer Key: Stop and Wait (2) & Sliding Window (3)	Apply	CO1	5
3.	Experiment with the need for subnetting and classless addressing schemes with examples. Answer Key: Subnetting (2) & Classless addressing (3)	Apply	CO2	5
4.	Organize the MAC layer functions of IEEE 802.11 Answer Key: MAC layer (5)	Apply	CO2	5
Assignment No: 2 Total marks:20				
Date of Issue: 14/02/2019		Date of Submission: 21/02/2019		
1.	Model the various aspects of IPV6 with relevant diagrams. Answer Key: IPV6 features (2) & header (3)	Apply	CO3	5
2.	Make use of the concept of link state Advertisement (LSA) in OSPF Answer Key: LSA key(2) & concept (3)	Apply	CO3	5
3.	Identify and compare UDP and TCP. Answer Key: UDP (2) & TCP (2)	Apply	CO4	5
4.	Experiment with Random Early Detection mechanism and derive the expression for drop probability. Answer Key: RED algorithm (3) & Drop Probability expression (2)	Apply	CO4	5
Assignment No: 3 Total marks:20				
Date of Issue: 02/03/2019		Date of Submission: 09/03/2019		
1.	Explain the message transfer using Simple Mail Transfer Protocol and Explain the final delivery of email to the end user using POP3 Answer Key: SMTP (5) & POP3 (5)	Underst and	CO5	10
2.	Develop code for Creating a wireless network and implement Link State Routing using simulation software Answer Key: Wireless network code (5) & LSA implementation (5)	Apply	CO6	10