

Semester: January 2022 - May 2022 Maximum Marks: 30 **Examination: In-Semester Examination** Duration :1 Hr. 15 min Programme code: 01 Semester: Class: Programme: UG I/H/H/IV/V/VI/VH/VH FY/SY/TY/LY/MTECH Name of the Constituent College: (SVU 2020) Name of the department: K. J. Somaiya College of Engineering COMP/ETRX/EXTC/IT/MECH Course Code: 116U01C502 Name of the Course: Computer Networks

n No.	,	Ma Ma ks	r	A A
Q1	 A. Draw layered architecture of the OSI reference mode and write two services provided by each layer of model. B. Give 3 differences between Connection-oriented and Connectionless services. 	el of		RE
Q2	Draw the following scenarios for GO Back N ARQ with window size 4. I. Frame 0 is sent, and ACK received. II. Frame 1,2 sent. III. Frame 1 is lost and Timer times out. IV. Frames 1 and 2 resent and for both ACK received V. Frame 3 is sent but ACK lost. VI. Frame 3 is resent, and ACK received. What is the window size in the given scenario? What will happen if frame 0, 1 and 2 is sent but frame 1 is lost. OR	10 M	CO2	UN, AP
	II. Show checking of codeword at the receiver site. ist down the characteristics of a good polynomial generator. A. An organization is granted the black 244 decrease.	10M		
Q3	I. Find the subnet mask. II. Find the number of addresses in each subnet. III. Find the first and last addresses of the subnet.		CO1, CO3	RE, AP