VEERMATA JIJABAI TECHNOLOGICAL INSTITUTE



Matunga, Mumbai-400 019

Autonomous Institute affiliated to University of Mumbai

EXAMINATION	End Semester Examination	DATE OF EXAM	12/05/2021
	MAY 2021		
SEMESTER & PROGRAM	Sem-I, 1 ST YEAR M.Tech.	TIME	11:00 AM to 01:00PM
	(Computer Engineering)		
TIME ALLOWED	2 HR.	MARKS	60
COURSE NAME – (CODE)	TCP/IP AND NP(CO5003T)		

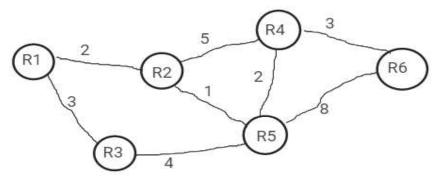
Instructions

- 1. All questions carry equal marks.
- 2. Figures to the right indicate full marks.
- 3. Assume suitable and necessary data.
- Q.1 a. List out various conditions in which retransmission occurs. Write in detail about (06) CO2 it.
 - b. The following is a dump of UDP header in hexadecimal format (04) CO1 5EFA00FD001C3297

What is the total length of user datagram? Is the packet from client to server or vice versa?

c. Write about how SYN-flooding attack is done. (02) CO3

Q.2 a. (10) CO2



In the above figure, R1, R2, R3, R4, R5 and R6 represents routers. Find out best path from R1 to R6 using Belmann Ford algorithm. Show complete routing table maintained at router R1.

- b. List out different functions provided by NMAP tool. (02) CO3
- Q.3 a. Write in detail about how DNS resolver find IP address for the host *ce.vjti.ac.in.* (10) CO4 Show different techniques.
 - b. An IPv4 packet has the first few hexadecimal digits as shown below. (02) CO1 0X4500005C000300005906.... How many hops can this packet take before being dropped?