## DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE

### Regular End Semester Examination - Summer 2022

Course: B. Tech. Branch: Computer Science and Engineering Semester: VI

Subject Code & Name: Computer Networks (BTCOC602)

Max Marks: 60 Date: 17/08/2022 Duration: 3.45 Hr.

#### Instructions to the Students:

- All the questions are compulsory.
- The level of question/expected answer as per OBE or the Course Outcome (CO) on which the guestion is based is mentioned in () in front of the question.
- 3. Use of non-programmable scientific calculators is allowed.
- 4. Assume suitable data wherever necessary and mention it clearly

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Q. 1	Solve Any Two of the following.		12
A)	Explain network software with respect to protocol hierarchy and design	Understand	6
	issue for layer?		
B)	Compare connection oriented and connectionless protocol?	Understand	6
C)		Remember	6
Q.2	Solve Any Two of the following.		12
A)	Compare token ring and FDDI with their frame format.	Application	6
B)	With reference of ATM answer the following  a. How is an ATM virtual connection identified?  b Name the ATM layers and their functions.  c. Why does ATM use small, fixed-length cells?	Understand	6
C)	Explain in brief 802.11 architecture and protocol stack?	Understand	6
Q. 3	Solve Any Two of the following.		12
A)	Hlustrate the services provided to the network layer by the data link layer.	Understand	6
B)	Calculate CRC code for Message "11101010111101010100011" if divisor polynomial is X <sup>5</sup> + X <sup>3</sup> + X <sup>2</sup> +1	Apply	6
C)	In a block of addresses, we know the IP addresses of two hosts are 25.34.12.56/16, 1s2.44.82.16/26. What are the first address (network address) and the last address (limited broadcast address) in each of these blocks?	Apply	6
Q.4	Solve Any Two of the following.	45	12
A)	The following is a dump of a FCP header in hexadecimal format.  (05320017 00000001 00000000 500207FF 00000000) 16  a. What is the source port number and the destination port number?	Apply	6
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	c. What the sequence number?		3
	d. What is the acknowledgment number?		
	e. What is the length of the header?		
	f. What is the type of the segment?		
	g. What is the window size?		
B)	Compare IPv4/IPv6 protocols?	Understand	6
C)	Illustrate with example leaky bucket and token bucket algorithms for	Understand	6
	traffic shaping?		
			12
Q. 5	Solve Any Two of the following.	Understand	6
A)	Explain types of DNS messages?	[바람이 아이들은 살아 아니다]	6
B)	Compare SMTP and POP Protocols.	Understand	U
C)	Illustrate with example public key and private key cryptography?	Understand	6

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