DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE

Supplementary Winter 23

Course: B. Tech.	**Branch : CE/CSE**		**Semester : VI**
Subject Code & Name:	**Computer Networks [BTCOC602_Y20]**		
Max Marks: 60	**Date: 18/01/2024**		**Duration: 3 Hr.**

Instructions to the Students:
1. *All the questions are compulsory.*
2. *The level of question/expected answer as per OBE or the Course Outcome (CO) on which the question 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.*

		(Level/CO)	Marks
Q. 1	**Solve Any Two of the following.**		**12**
A)	Explain Network software in detail?	**L2/CO1**	6
B)	Write short note on various high speed network Technology	**L2/CO1**	6
C)	Explain Type of computer network	**L2/CO1**	6
Q.2	**Solve Any Two of the following.**		**12**
A)	What is FDDI? Draw and explain the frame format of FDDI.	**L2/CO2**	6
B)	Explain in brief WiFi 802.11. Also explain working principle of WiFi 802.11	**L2/CO2**	6
C)	Draw and Explain Ethernet frame format.	**L3/CO2**	6
Q. 3	**Solve Any Two of the following.**		**12**
A)	A 7 bit Hamming code received as 1011011. Assume even parity and state whether the received code is correct or wrong, if wrong locate the bit in error?	**L3/CO3**	6
B)	Consider the data unit to be transmitted is- 10011001111000100010010010000100 Consider 8 bit checksum is used..	**L3/CO3**	6
C)	What is hamming distance? Explain with example	**L2/CO3**	6
Q.4	**Solve Any Two of the following.**		**12**
A)	Draw and explain IV4 Header format	**L2/CO4**	6
B)	Write Berkeley Socket primitive	**L2/CO4**	6
C)	From IP Address 222.151.210.34 find out its class , Network ID , Host ID	**L3/CO4**	6

Q. 5	Solve Any Two of the following.		12
A)	What do you mean of digital Signature? Define the following Term. 1)Symmetric and Asymmetric key cryptography 2)Public key 3)private key 4)Authentication 5)Integrity	L2/CO5	6
B)	Explain SMTP & POP Protocol	L2/CO5	6
C)	Difference between persistence and non- persistence HTTP protocol	L2/CO5	6
	*** End ***		

The grid and the borders of the table will be hidden before final printing.