Name				Printed Pages:01		
Student Admn. No.:						
School of Electrical, Electronics and Communication Engineering						
End Term Examination (ETE), May 2022, Winter 2021-22						
[Programme: B. Tech., ECE] [Semester: VI] [Batch: 2020-24]						
Course Title: Advanced Communication System				Max Marks: 50		
Course Code: BEE01T3005			Time: 3 Hrs.			
Instructions:		1. All questions are compulsory.				
	2. Assume missing data suitably, if any.					
SECTION-A (10 Marks) 2 Marks each						
1.	Distinguish between analog and digital communication?		CO1	K1	2	
2.	What do you mean by modulation. Write its uses in digital communication?		CO2	K1	2	
3.	How spread spectrum methods are classified?			K2	2	
4.	Explain briefly Quality of Service (QoS) in communication system.		CO4	K2	2	
5.	Discuss the _advantages and _disadvantages of 4G (LTE)?		CO5	K2	2	
SECTION-B (16 Marks)						
6.	Explain the working of OFDM? Why has there been all the interest in OFDM in the last few years?		CO1	К3	5	
•	last lew years:					
	Eighteen voice mediums of 2 kHz BW each_ sampled at nyquist rate and encoded		CO2		5	
7.	into 4-bit (Pulse Code Modulation) are time division multiplexed with 1 bit per			K3		
	frame as _synchronization bit. Calculate the bit rate at the output of multiple		CO6	K4	6	
8.	Elaborate the Emerging Trends and Technologies in 5G Networks				U	
SECTION-C (24 Marks) 8 Marks each  9 Explain the different multiple access techniques with their comparison? CO3 K4						
9.	Explain the different multiple access techniques with their comparison?			K4	8	
10.	Explain WiMAX technology with its architecture and components?		CO4	K5	8	
11.	Write down the comparison between PCM, DM, ADM and DPCM.			K5	8	