	Winter Examination – 2022		
	Course: B. Tech. Branch: Electronics Engineering Semester: VII		
	Subject Code & Name: Wireless Communication (BTEXPE704D)		
	Max Marks: 60 Date: 07/02/2023 Duration: 3 Hr.		
	Instructions to the Students:		
	1. All the questions are compulsory.		
	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.		
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Q. 1	Solve Any Two of the following.	,	
A)	What is Handoff? Explain different types of handoff in detail.		
В)	Explain co-channel interference and derive the co-channel interference reduction Factor.		
C)	A mobile operator has a total bandwidth of 10 MHz available for the GSM system. In		
	GSM, each channel occupies 200 kHz band, compute the number of channels available		
	per cell if a system uses 3 cell clusters.		
Q.2	Solve Any Two of the following.	,	
A)	Draw the Architecture of GSM & explain its any two channels in detail	6	
В)	Draw the Frame structure for GSM and explain it in brief.	6	
	Evaloin the eachitecture of CDDC with most discusses	6	
C)	Explain the architecture of GPRS with neat diagram		

Q. 3	Solve Any Two of the following.	12
A)	Explain the principle of OFDM with block diagram	6
В)	What is Windowing technique? Explain in brief.	6
C)	Explain Bluetooth technology with neat diagram	6
Q.4	Solve Any Two of the following.	12
A)	Draw and explain DSSS System	6
В)	What is the use of RAKE receiver in CDMA? Explain with diagram.	6
C)	Write a Short note on Wireless Sensor Networks	6
Q. 5	Solve Any Two of the following.	1
A)	What are the types of CDMA Channels? Explain any one in detail	6
В)	Explain Forward Link Features of CDMA.	6
C)	What is Wi-Fi? How does it works?	6
	*** End ***	