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WIRELESS AND MOBILE COMMUNICATION 6th Exam/ECE/5619/Jun'2022 (For 2018 Batch Onwards)

	(For 2018 Batch Onwards)			
Duration: 3Hrs.		M.Marks:75		
	SECTION-A			
Q1. Do	as directed.	15x1=15		
a.	Name thetechnology used by 2G system?			
	What are electromagnetic waves?			
	Which shape of cell is preferred in cellular network?			
	What are micro cells?			
e.	Which interface provides the physical link between the mobile	and the network?		
	Which access technique has a very high spectral efficiency?			
	GSM stands for			
h.	FDMA stands for			
i.	HSPA stands for			
j.	THSS stands for			
k.	What is cell cluster?			
I.	What is adjacent channel interference?			
m.	What is soft handoff?			
	What is wireless communication?			
0.	State SMS.			
	SECTION-B			
	empt any six questions.	6x5=30		
	What is handoff? Explain its types.			
	Discuss the cellular network system in brief.			
	What is frequency hopping spread spectrum?			
	Why and how sectorization is done in cells?.			
	State Doppler Effect.			
	Discuss the basic concept of adjacent channel interference.			
	Give advantages and applications of Wireless communication.			
	Why hexagonal geometry shape is used in cellular system?			
ix.	Explain the process of GPRS System.			
	SECTION-C			
Q3. Attempt any three questions. 3x10=30				
	Draw and explain the architecture of UMTS and its features.	3X 1U-3U		
a. b.	Draw and explain the architecture of OWTS and its reatures.			
D. C.	Explain the following propagation considerations			
C.	i) Geographical effect on wireless communication	ii) Fading		
d.	Discuss features and architecture of LTE (long term evolution).	ii) i auli iy		
u. e.	Difference between TDMA, FDMA and CDMA in detail.			
€.	Difference between Tuivia, I Divia and Cuivia in detail.			