						Reg. No.								
			Quest	ion Paper	Code	1305	57							
	M.E. / M.Tech DEGREE EXAMINATIONS, NOV / DEC 2024													
	Third Semester													
	M.E Embedded Systems Technologies													
	20PESEL315 - WIRELESS AND MOBILE COMMUNICATION													
Regulations - 2020														
Dı	iration	: 3 Hours								Ν	fax.]	Mar	ks: 1	00
	PART - A $(10 \times 2 = 20 \text{ Marks})$							Л	Marks ^K – Level CO					
1.	State	te the path loss expression for two ray ground reflection model.								2	K1	CO1		
2.	What	What is multipath propagation?								2	K1	CO1		
3.	Distir	Distinguish between narrowband and wideband systems.								2	K2	<i>CO2</i>		
4.	Defin	efine Near and far terminals.								2	K1	<i>CO2</i>		
5.	List t	the uses of Signaling System No. 7 (SS7) in GSM.							2	K1	CO3			
6.	What are the number of sending and receiving slots available for GPRS class -10 service?							-10	2	K1	СО3			
7.	State	ate the use of Clear Channel Assessment (CCA) signal.							2	K1	<i>CO4</i>			
8.	List t	he three phases o	f operat	tion in HIF	PERLAN1							2	K1	<i>CO4</i>
9.	What	is HAWAII?										2	K1	CO5
10.	State	the registration c	odes fo	r "denied l	by HA" in	mobile IP.						2	K1	CO5
PART - B $(5 \times 13 = 65 \text{ Marks})$ Answer ALL Questions														
11.	a)	Explain the f disadvantages.	our ty	pes of s	atellite o	rbits with	its a	ıdva	ntag	ges a	and	13	K2	CO1
					OR							10	W2	<i>co</i> 1
	b)	Illustrate DSSS signal represent	with r ations.	elevant tra	ansmitter	and receive	r bloc	k dı	lagra	ams a	ind	13	K2	COI
12.	a)	Compare and co	ontrast t	he various	types of 1	nultiple acc	ess tec	hnic	ques	•		13	K2	<i>CO2</i>
	b)	Elaborate on C diagrams.	Code	Division	Multiple	Access (C	DMA) w	ith	relev	ant	13	K2	<i>CO2</i>
13.	a)	Explain the type	es of ha	ndover in a	detail.							13	K2	CO3
	b)	Elaborate the lo	calizati	on and cal	OK ling proce	dures of GS	M in d	letai	1.			13	K2	CO3
K1	– Reme	ember; K2 – Under	rstand; I	K3 – Apply;	K4 – Anal	yze; K5 – Eva	aluate;	K6 -	– Cre	eate			130	957

14.	a)	Explain the IEEE 802.11 system and protocol architecture in detail.	13	K2	<i>CO</i> 4
		OR			
	b)	Illustrate the functions of Bluetooth with its protocol architecture.	13	K2	<i>CO</i> 4
15.	a)	Explain the encapsulation mechanisms and its types in detail.	13	K2	<i>CO5</i>
		OR			
	b)	Elaborate on the DSR protocol with relevant diagrams.	13	K2	CO5
		PART - C (1 × 15 = 15 Marks)			
16.	a)	Explain Wireless Transport Layer Security in detail.	15	K2	<i>CO6</i>
		OR			

b) Describe WML and WML scripts in detail. 15 K2 CO6