BE11-R4 : WIRELESS & MOBILE COMMUNICATION

NOTE :

1.	Answer question 1 and any FOUR from questions 2 to 7.	
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2. Parts of the same question should be answered together and in the same sequence.

Time: 3 Hours

Total Marks: 100

1.	(a)	Give the comparison between 3G and 4G.	
	(b)	Write a short note on Shadowing and Reflection in wireless environme	ent.
	(c)	Which are the main parts of 802.1x Authentication ? Explain ther appropriate diagram.	n with
	(d)	What are the Goals of GPRS ?	
	(e)	What is Multi-path propagation ? Explain it in detail.	
	(f)	Explain Scattering and diffraction of waves in detail.	
	(g)	What are the advantages and disadvantages of WLAN ? Under what sit is a WLAN desirable over Wired LAN ?	tuation (7×4)
2.	(a)	Describe GSM architecture along with different entities in it.	
	(b)	Differentiate between wireless and wired LAN.	(10+8)
3.	(a)	Explain Authentication and Encryption in GSM.	
	(b)	Draw and explain IS-95 architecture model.	(9+9)
4.	(a)	Explain Core Protocols in Bluetooth Protocol Stack.	
	(b)	Explain the difference between soft hand off and hard hand off.	
	(c)	List the fundamental goals of security in any information system. E WEP (Wired Equivalent Privacy).	2xplain (6+4+8)
5.	(a)	Draw and explain GPRS Protocol Stack.	
	(b)	Explain the salient features of Android.	
	(c)	Draw and explain Intra-MSC handover in GSM.	(6+6+6)
6.	(a)	What is personal area network ? What are its applications ?	
	(b)	What is CS (Carrier Sense)? What is CSMA? Write down steps for CSM	IA/CA.
	(c)	How the applications for mobile devices can be developed using Noki Kit.	ia Tool (5+6+7)
7.	Wri	te short note on followings :	
	(a)	Differentiate adhoc mode and infrastructure mode in WLAN.	
	(b)	What are the identifiers available in GSM ? Explain them in detail.	
	(c)	What are the goals of GPRS ?	(6+6+6)