

Exam.Code:1046
Sub. Code: 35458

2056
M.E. Computer Science and Engineering (Cyber Security)
Second Semester

CSN-8203: Mobile Wireless and VOIP Security

Time allowed: 3 Hours

Max. Marks: 50

NOTE: Attempt five questions in all, including Question No. 1 which is compulsory and selecting two questions from each Section.

x-x-x

1	a	Define mobile network security and its importance.	2
	b	Explain the concept of authentication and key management in wireless networks.	2
	c	What is SPIT (Spam over Internet Telephony)?	2
	d	What is man-in-the-middle attack in VoIP communication?	2
	e	What are intrusion detection systems in wireless networks?	2
	Section A		
2		Draw and discuss the architecture of Bluetooth.	10
3		Explain wireless network security threats. Discuss attacks such as rogue access points, packet sniffing, and session hijacking.	10
4		What is GSM? Draw and discuss the architecture of GSM.	10
	Section B		
5		Explain the VoIP architecture and protocols used in IP telephony systems. Discuss security concerns associated with VoIP networks.	10
6		Discuss security mechanisms used in IEEE 802.11 networks. Explain authentication methods and encryption techniques used to secure wireless communication.	10
7		Discuss security mechanisms for VoIP systems including encryption, authentication, and secure signaling protocols.	10

x-x-x