

2072
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 (Section-A) which is compulsory and selecting two questions each from Section B-C.

x-x-x

Section-A		
Q1.	a) List various security issues in mobile environment. b) Differentiate between SMS and MMS technologies. c) What are the logical channels in GSM? d) How 4G and 5G can work together? e) List various issues related with IEEE 802.11 standard security.	10
Section-B		
Q2.	a) What are the issues and challenges of wireless networks b) What do you mean by mobile security. Discuss various limitations of mobile environment. c) Differentiate between terms mobility and security.	3 3 4
Q3.	a) List out the different interfaces present in GSM? b) Illustrate objectives of the Bluetooth technology. c) Discuss various security issues in Mobile web security	3 3 4
Q4.	a) How many layers are there in 5G protocol stack? b) Will 5G make wi-fi obsolete? Which industries will benefit most from the 5G technology? c) What is WAP? Why is it needed? Discuss WAP protocol stack.	3 3 4
Section-C		
Q5.	a) Explain WLAN physical layer frame as per 802.11a standard. b) Discuss various emerging security standards and technologies for wireless communication.	5 5
Q6.	a) Which protocol is used for voice and video transmission? List the challenges associated with both. b) Why VoIP is better than traditional phone services? c) What kind of equipment's do we need for creating a VoIP system? How calls can be made over a VoIP network?	4 3 3
Q7.	a) Discuss WEP. List various effects of applying WEP in VoIP. b) Discuss various DDOS attacks. What protocol is used for DDoS?	5 5

x-x-x