

**Subject :** 2170710-Mobile Computing and Wireless Communication

Prof. Swati R Sharma

Sr.	Unit No.	Question	winter 2017	summer 2018	winter 2018	summer 2019	winter 2019	Total
1	1	Differentiate: Circuit Switching and Packet Switching. OR Explain packet switching and circuit switching.	4	7	4	4		19
2	1	Compare and contrast OSI model and TCP/IP protocol architecture.	4	3	7			14
3	2	Explain Direct Sequence Spread Spectrum in detail. How does it work in CDMA technology?	7	7	7			21
4	2	Define the Frequency Hopping in Spread Spectrum? Write a note on TDMA, FDMA and CDMA. Discuss advantages and applications of FHSS.		7		7	4	18
5	2	What is the need for ARQ? Explain Sliding Window Protocol with example. OR Write a short note on selective repeat ARQ. What is importance of it?	7		3	4		14
6	3	What is Mobile IP? Explain Discovery, Registration and Tunnelling with Mobile IP. OR Discuss Mobile IP.	7		7	7		21
7	3	Explain the GPRS Transmission Protocol Stack with the neat diagram. OR Draw and explain the GPRS transmission plane protocol model.		7		7		14
8	3	Explain functional architecture of GSM system and types of services provided by GSM.			7	7		14
9	3	Illustrate different scenarios of Roaming and Handoff in GSM with proper Examples. OR What is handoff? Explain its various types.	7				7	14
10	3	Compare: GSM and CDMA.	3	4	3	3		13
11	4	Draw and Explain IEEE 802.11 protocol architecture and services.	4	4	7		7	22
12	5	Draw and Explain Bluetooth Protocol Architecture.	7	7	7			21
13	5	Write a note on Bluetooth protocol stack.				7	7	14
14	6	Draw Android Architecture. Also explain Android Application Framework in brief.	7	4	7	7	7	32
15	6	Define the Android Layout. Explain the various Android Layouts.		7	7		7	21