

CBCS SCHEME

USN

--	--	--	--	--	--	--	--	--	--

17MT551

Fifth Semester B.E. Degree Examination, Feb./Mar. 2022

Wireless Networks and Communication

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

- 1 a. With a neat block diagram, explain wireless communication system. List out merits and demerits of wireless communication system. (10 Marks)
- b. With a neat diagram, give classification of wireless networks based on range and application. (10 Marks)

OR

- 2 a. Discuss wireless communication problems encountered in wireless network. (10 Marks)
- b. Discuss and explain various networking issues encountered in wireless network. (10 Marks)

Module-2

- 3 a. Explain networks architecture and design issues in WBAN system. (10 Marks)
- b. Discuss WBAN routing protocols SMAC and TMAC. (10 Marks)

OR

- 4 a. Explain WPAN networks architecture and topologies. (10 Marks)
- b. Explain protocol stack arrangement Bluetooth technology. (10 Marks)

Module-3

- 5 a. Explain error detection and correction coding techniques in wireless telecommunication system. (10 Marks)
- b. Explain QPSK digital modulation technique. (10 Marks)

OR

- 6 a. Explain diversity techniques in wireless communication. (10 Marks)
- b. Explain ultra wideband radio technology. (10 Marks)

Module-4

- 7 a. Explain design requirements of WLAN. (10 Marks)
- b. Discuss the features of WIMAX. (10 Marks)

OR

- 8 a. Explain with a neat diagram GSM networks architecture. (10 Marks)
- b. Discuss the WLAN standards. (10 Marks)

Module-5

- 9 a. Explain 5 routing protocols of wireless sensor network (WSN). (10 Marks)
- b. Explain MANET single hop and multihop architecture. (10 Marks)

OR

- 10 a. Explain the quantitative and qualitative features of wireless Adhoc networks. (10 Marks)
- b. Explain the characteristics and architecture of VANETs. (10 Marks)
