

CBCS SCHEME

15MT551

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Fifth Semester B.E. Degree Examination, July/August 2021 Wireless Networks and Communication

Time: 3 hrs.

Max. Marks: 80

Note: Answer any FIVE full questions.

- 1 a. With a neat block diagram, explain wireless communication system. (08 Marks)
b. Explain various communication problems encountered in wireless network. (08 Marks)
- 2 a. Discuss various network issues encountered in wireless network. (08 Marks)
b. Explain wireless switching technologies. (08 Marks)
- 3 a. With a neat diagram, explain network components and architecture of WBAN system. (08 Marks)
b. Explain any two MAC layer protocols in WBAN system. (08 Marks)
- 4 a. With a neat diagram, explain WPAN architecture and its topologies. (08 Marks)
b. Explain with neat diagram, zigbee protocol stack. (08 Marks)
- 5 a. Explain the following :
i) Error detection and correction coding (08 Marks)
ii) Block interleaving (08 Marks)
b. Explain Frequency Hop Spread Spectrum (FHSS) techniques. (08 Marks)
- 6 a. Briefly explain RAKE receiver. (08 Marks)
b. Explain :
i) Ultra wide band radio technology (08 Marks)
ii) Space diversity. (08 Marks)
- 7 a. Explain design requirement of WLAN. (08 Marks)
b. Explain important features of WIMAX. (08 Marks)
- 8 a. Briefly explain GPRS network architecture. (08 Marks)
b. Explain CDMA network architecture, key features, functions and limitations. (08 Marks)
- 9 a. Discuss routing protocols in MANET. (08 Marks)
b. Give comparison between cellular network and adhoc network. (08 Marks)
- 10 a. Explain routing protocols of WSN. (08 Marks)
b. Explain unique characteristics of VANET's. (08 Marks)

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Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.