Code No: L0423





IV B.Tech. II Semester Regular Examinations, April/May 2013 WIRELESS COMMUNICATIONS AND NETWORKS (Common to Electronics & Communication Engineering and Electronics and Commutation

(Common to Electronics & Communication Engineering and Electronics and Computer Engineering)

Time: 3 Hours

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Max Marks: 80

Answer any FIVE Questions All Questions carry equal marks ******

- a) Distinguish between SDMA and FDMA with neat sketches
 b) What do you know about packet radio? Give details
- 2. a) Describe traffic routing and explain with examples.b) Discuss about the first generation cellular radio network with a neat diagram.
- 3. a) What is Common channel signaling and Explain about it.b) Compare ISDN and BISDN in detail.
- 4. a) Discuss about mobile IP and its operation.b) Explain about Wireless datagram protocol and its applications
- 5. a) Explain IEEE 802 protocol architecture and its limitations.b) Explain in detail about Spread spectrum LAN and its applications.
- 6. a) Explain about logical link control and adaptation protocol.b) What are the similarities between frequency hopping and TDMA?
- 7. a) What is GPRS? How it works? Give applications.b) What is a radio wave? Explain all the details of radio wavepropagation
- 8. a) What is HiperLan. Compare different LAN structures and list out their applications.b) What are the purposes of using RTS/CTS in CSMA/CA?

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R07

Set No. 2

IV B.Tech. II Semester Regular Examinations, April/May 2013 WIRELESS COMMUNICATIONS AND NETWORKS (Common to Electronics & Communication Engineering and Electronics and Computer

Time: 3 Hours

Max Marks: 80

Answer any FIVE Questions All Questions carry equal marks ******

Engineering)

- a) Distinguish between CSMA protocols and Reservation protocols
 b) Compare FDMA, TDMA and CDMA in detail.
- 2. a) Explain how wireless telephony is developed and its applications.b) What are the optical properties of radio waves? Explain.
- 3. a) Discuss about RMD and SS7. List out salient featuresb) Discuss about ISDN and BISDN. List out important differences.
- 4. a) Write about WAP architecture and explain in detail.b) What are merits/demerits of CSMA/CA with RTS/CTS protocols?
- 5. a) Discuss about different controls and layers of 802.11......b) Compare Infra red LAN and Narrow bank Microwave LAN.
- 6. a) What do you understand about links manager specifications?b) What is Bluetooth? Give overview and its applications.
- 7. a) What do you mean by SMS? How it works in GSM.b) Explain in detail about mobile application protocol and give an example.
- 8. a) Explain about adhoc networking and its applications.b) List out merits/demerits of persistent and non-persistent CSMA protocols.

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Time: 3 Hours

R07



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Engineering)

Max Marks: 80

Answer any FIVE Questions All Questions carry equal marks ******

- a) Distinguish the features between TDMA and SDMA
 b) Distinguish between Packet radio protocols, and CSMA protocols,
- 2. a) Compare different applications with wired and wireless telephone networks.b) What are the differences in channel allocation problems in FDMA/TDMA based systems versus CDMA-based systems-Explain clearly.
- a) Explain about signaling traffic in SS7b) Give details about CDPD, ARDIS and list out merits and demerits.
- 4. a) What is tunneling? Explain in detail by an example/application.b) Explain about WML scripts with examples.
- 5. a) Discuss about IEEE802 architecture and servicesb) Why is the near-far problem present in CDMA and not in FDMA? Clarify in detail.
- 6. a) What are the specifications for Radio band and base band? Give details and their applicability.
 - b) Compare Hyper lan2 and Bluetooth by an application/example.
- a) Distinguish GPRS and CDPD networks with an application.b) Why protocols are required for mobile applications? Give details.
- 8. a) Explain about wireless ATM in detail.b) List out differences between Ricochet solution and IEEE 802.16.

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R07

Set No. 4

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Engineering)

Time: 3 Hours

Max Marks: 80

Answer any FIVE Questions All Questions carry equal marks ******

- a) Explain in detail about TDMA and FDMA with an example.
 b) Explain spread spectrum techniques and multiple access techniques.
- 2. a) Explain the basic differences between wireless telephony and basic fixed telephone networks..
 - b) What is the reason behind using different slot sizes in Bluetooth? Explain clearly.
- 3. a) Give details about ATM and its functioning.b) Give details of AMPS and their operational features.
- 4. a) Explain WAP service and WAP session protocol clearly.b) Discuss about wireless transaction in detail.
- 5. a) What is LAN? Discuss about different options available.b) Draw the layout of GSM and explain in detail.
- 6. a) What is WLL? Explain in detail.b) Discuss about functional planes and authentication process involved with GSM.
- 7. a) What is GSM? What are different services available in GSM.b) Explain about CDPD network with examples.
- 8. a) What is WPAN? Explain in detail.b) List out characteristics of MANETs.

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