

Code: 9A04806

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B. Tech IV Year II Semester (R09) Regular Examinations, March/April 2013

WIRELESS COMMUNICATIONS & NETWORKS

(Common to ECE & ECC)

Time: 3 hours

Max. Marks: 70

Answer any FIVE questions
All questions carry equal marks

- 1 (a) Explain in detail about packet radio protocols.
(b) Explain the features of FDMA.
- 2 (a) Explain about the circuit switching.
(b) What are the characteristics of wireless networks?
- 3 (a) Explain about ATM virtual circuits with a neat figure.
(b) Explain the ISDN with neat block diagram.
- 4 (a) Explain in detail wireless transaction.
(b) How agent registration takes place in mobile IP.
- 5 (a) Write notes on IEEE802 services.
(b) Explain about infrared LAN's.
- 6 (a) Explain the error correction schemes in Bluetooth.
(b) What are the advantages of WLL over a wired approach to subscriber loop support?
- 7 (a) Explain over view of SMS operation.
(b) Explain the protocol layers in GPRS.
- 8 Explain about:
(a) Wireless ATM
(b) WPAN

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- 1 (a) Compare DS-SS and FH-SS.
(b) Discuss about CSMA protocols and reservation protocols.
- 2 (a) Explain the public switched telephone network.
(b) Explain in detail about packet switching.
- 3 (a) Explain SS7 protocol architecture in detail.
(b) Explain in detail about BLSDN.
- 4 (a) List the services provided by WAP.
(b) Explain the important capabilities of WML script.
- 5 (a) With a neat sketch explain the architecture of IEEE802.11.
(b) Explain the configuration for omnidirectional infrared LANS.
- 6 (a) Explain the use of logical channels to carry different types of payload traffic in Bluetooth.
(b) Explain about the logical link protocol.
- 7 (a) Explain the architecture of GPRS with a neat diagram.
(b) Explain about short messaging services in GSM.
- 8 Explain in detail about the adhoc network architecture.

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- 1 (a) Explain the space division multiple access.
(b) Classify the medium access protocols and explain them.
- 2 (a) Explain about traffic routing in wireless protocols.
(b) How wireless networks are different from cellular networks.
- 3 (a) Write notes on RMD.
(b) Explain the CCS network architecture with neat diagrams.
- 4 (a) Explain the WAP programming model with neat diagram.
(b) Draw and discuss the fields in registration request message.
- 5 (a) Explain different wireless LAN applications.
(b) Write notes on 802.11 physical layers.
- 6 (a) Explain the Bluetooth usage models.
(b) Explain about L2CAP channels and L2CAP packets.
- 7 How mobile networks support data using GPRS.
- 8 (a) Write notes on HIPERLAN.
(b) Explain in detail about the protocol entries in wireless ATM.

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- 1 (a) Distinguish between TDMA and FDMA with a neat diagram.
(b) Explain about the ALOHA protocols in detail.
- 2 (a) Explain the limitations in wireless networking.
(b) Explain the first generation wireless networks with a neat diagram.
- 3 (a) Write the notes on cellular digital packet data.
(b) What are the services offered by the SS7 network?
- 4 (a) Explain the operation of mobile IP.
(b) Explain about the wireless datagram protocol.
- 5 (a) Discuss the transmission issues in spread spectrum LAN's.
(b) Explain about narrow band microwave LAN's.
- 6 (a) Write notes on Bluetooth baseband and formats.
(b) Explain Bluetooth protocols architecture in detail.
- 7 (a) Explain about the CDPD physical layer.
(b) Explain the hand-off management in GPRS.
- 8 (a) What is the difference between a logical and a transport channel in HIPERLAN?
(b) Explain the protocol entries in wireless ATM.
