SET- 1

IV B. Tech II Semester Regular Examinations, April/May 2009
WIRELESS COMMUNICATIONS & NETWORKS
(Common to E.C.E, E.Con.E)

Time: 3 Hours   **Max. Marks 80**

Answer any FIVE questions
All questions carry equal marks

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1. a) Distinguish between TDMA and FDMA with a neat sketch bringing out salient
    Features.
    b) Discuss the CSMA protocols.   8m+8m

2. a) Discuss the development of 3rd generation wireless networks
    b)Explain packet switching with necessary data formats.   8m+8m

3. a) Explain the most commonly used interface in ISDN with a neat block diagram.
    b) Explain SSM protocol architecture with a neat block schematic   8m+8m

4. a) Discuss the important capabilities of WML scripts   8m
    b) Draw the programming model for WAP and explain its functioning   8m

5. a) Discuss the application of wireless LAN.   6m
    b) Describe the function of each layer of protocol with a neat IEEE 802 architecture
    diagram   10m

6. a) Draw the BLUE TOOTH architecture and explain the working of each layer
    b) Discuss about BLUE TOOTH usage models   8m+8m

7. a) Draw the CDPD architecture and explain its functions.   8m +8m
    b) Give the overview of SMS operation in GSM with necessary protocols architecture

8. a) what is wireless ATM ? Discuss the WATM entities with a neat diagram.   8m
    b) what is Hiper LAN explain with neat adhoc network architecture   8m

Code No:2420401

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1. a) Explain FDMA with its salient Features, emphasizing the non liner

    effects in FDMA   8m

    b) Distinguish between pure ALOHA and slotted ALOHA in terms of maximum through

    put.   8m.

2. a) Distinguish between wireless and fixed telephone Networks.   6m

    b) Discuss the development of 2rd generation wireless networks   10m

3. a) Draw the network diagram CDPD and discuss the function of each block.   8m

    b) Discuss the networks services part (NSP) of SS7 with a neat protocol

    architecture

4. a) Explain the operation of mobile IP.   8m

    b) Write short notes on wireless datagram protocol.   8m

5. a) Mention the different categories   wireless LAN and discuss the transmission

    techniques of IR LANS with a neat diagrams   10m

    b) Draw the protocol architecture of LAN and Compare it with OSI model.   6m

6. a) Discuss the adaptation protocols of BLUE TOOTH.   10m

    b) Mention the radio specification of BLUE TOOTH.   6m

7. a) Discuss the   short message schemes in GSM   8m

    b)Explain how the mobility support is a achieved in GPRS with a neat schematic

                                                                                                          8m

8. a) Discus the reference model of WATM network.   8m

    b)what is Home RF explain with overall architecture diagram   8m

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1.   a) Explain in detail about SDMA, brining out the salient features.

     b) Explain different protocols used in packet ratio   8m+8m

2.   a) Distinguish between packet switching and circuit switching with necessary data

     Formats.   10m

     b) Explain about signaling between mobile, base station and MSC in lst generation

     networks with neat diagram   6m

3.   a) Explain the functioning CDPD networks with a neat block schematic   8m

     b) Draw the block diagram of ISDN and explain two interface used in the network 8m

4.   a) Draw the general scenario of mobile IP and explain its functioning. 8m

     b) Discuss wireless datagram protocols with salient features.   8m

5.   a) State the requirements of wireless LAN? Explain and discuss the transmission

     issues in spread spectrum LANS   10m

     b) Write short notes on "IEEE 802.11services"   6m

6.   a) Discuss the three error correction schemes that are used in BLUE TOOTH   8m

     b) Write short notes on BLUE TOOTH usage model   8m

7.   a) Explain the short message services in GSM   8m

     b) Write shot notes on "mobile application protocol   8m

8.   a) Draw the basic architecture of a WATM networks and Discuss the protocol

     entities in WATM   10m

     b) Write short notes on "WPAN"   6m

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1. (a) Explain the salient features of FDMA with a neat diagram.

    (b) What is packet radio? Explain slotted ALOHA and pure ALOHA with a neat sketches.

2. (a) Discuss the limitations in wireless networking.

    (b) Discuss the development of 1st Generation networks.

3. (a) Write short notes on RAM Mobile Data (RMD).

    (b) Distinguish between ISDN, BISDN and ATM with necessary figures.

4. (a) Discuss the Tunneling in Mobile IP.

    (b) Discuss the salient features of WML scripts.

5. (a) Explain the transmission techniques that are used in infrared LAN.

    (b) Write short notes on "IEEE 802 services"

6. (a) Explain the logic link control in BLUE tooth.

    (b) Discuss "WLL Technologies"

7. (a) Draw the GPRS architecture and discuss the location and Hand off management procedures with necessary diagrams.

    (b) Discuss the mobility management in CDPD.

8. (a) Discuss the protocol entries in wireless ATM.

    (b) Write short notes on Hiper LAN.