
Sixth Semester

Computer Science and Engineering

CSU 352 – MOBILE AND PERVERSIVE COMPUTING

(Common to ETCS 9352 – Mobile and Pervasive Computing for B.E. (Part-Time)
Sixth Semester – Computer Science and Engineering)

(Regulation 2009)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Define Handover.
2. What is mean by guard space?
3. Difference between piconet and scatternet.
4. Give the 802. 11 PHY frame format using DSS.
5. List any four advantages of using DHCP.
6. Mention any four disadvantages proactive over reactive routing protocols.
7. What are the Goals of WTLS Layer?
10. What are the security issues found in Pervasive computing?

PART B — (5 × 16 = 80 marks)

11. (a)* Briefly explain about SDMA, FDMA, TDMA, CDMA.

Or

(b)  (i) List the various handovers carried out in GSM and explain any one of them in detail.  (8)

(ii) Explain in detail about the General Packet Radio Service (GPRS).  (8)
12.  (a)  (i)  Explain in detail about IEEE 802.11 architecture.  

(ii)  Explain the architecture of Wifi in detail.  

Or

(b)  (i)  Discuss the architecture of Bluetooth in detail.  

(ii)  Explain the architecture of Hiper LAN in detail.  

13.  (a)  Explain in detail about Mobile IP.  

Or

(b)  Explain and how is multicast routing carried out in ad-hoc network.  

14.  (a)  Explain in detail about WAP architecture.  

Or

(b)  Discuss about the WWW programming model in detail.  

15.  (a)  Explain about the various hardware components involved in Pervasive Computing Devices.  

Or

(b)  Explain in detail about the access form PCs and how is access carried out in case of a PDA?