

Roll Number:

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UNIVERSITY DEPARTMENTS, ANNA UNIVERSITY, CHENNAI
B.E./B.TECH(Full Time) DEGREE END SEMESTER EXAMINATIONS, NOV/DEC 2011
COMPUTER SCIENCE & ENGINEERING BRANCH
SIXTH SEMESTER – REGULATIONS 2008
CS9352: MOBILE AND PERVASIVE COMPUTING (ARREARS)

Time: Three hours

Max.Marks:100

Answer All Questions
Part – A (10X2 = 20 Marks)

1. Which MAC schemes that can give hard guarantees related bandwidth and delay?
2. What are the decision parameters and schemes for handover?
3. How are the additional elements in GPRS mapped with GSM?
4. Show a comparison table of performance of various HyperLANs.
5. How are collisions avoided during data transmission?
6. What are the features of WTLS?
7. What are the three classes of transaction service offered by WTP to the higher layer?
8. Write down the steps in ad hoc network route discovery.
9. List any four operating systems used in pervasive computing devices.
10. What are the essential features for Human-device interface in pervasive computing scenario?

Part – B (5X16 = 80 Marks)

11. a) Explain GSM signaling protocol architecture. (10)
b) Describe mobile originated connection establishment in GSM. (6)
 12. a) i. Explain Blue tooth architecture and management. (10)
ii. Describe the working principle of Wi-Max network. (6)
(OR)
b) Describe the MAC layer management of IEEE 802.11 network. (16)
 13. a) i. Describe AODV routing protocol. (8)
ii. Explain IP-in-IP encapsulation protocol in mobile IP environment ? (8)
(OR)
b) i. Explain a suitable reactive protocol for mobile ad hoc network? (8)
ii. Describe any two of the multicast routing algorithms. (8)
 14. a) Explain the working principle of Indirect-TCP. Compare it with snooping TCP. (8+8)
(OR)
b) Describe WTA architecture. Write WML script to display currency conversion. (10 +6)
 15. a) i. Explain pervasive computing infrastructure and its application. (10)
ii. How do you use biometrics for authentication? (6)
(OR)
b) i. Explain data access via WAP? (10)
ii. Discuss the kind of device technology for physically challenged users? (6)
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