Code No: N0523

R07

Set No. 1

IV B.Tech I Semester Supplementary Examinations, March 2013 MOBILE COMPUTING

(Common to computer science & engineering, information technology and electronics & computer engineering)

Time: 3 hours Max. Marks: 80

Answer any Five Questions All Questions carry equal marks

- 1. Explain the functional architecture of GSM system with schematic block diagram.
- 2. a) Brief the cache invalidation mechanism
 - b) Explain about database Hoarding.
- 3. Explain the classical TCP improvements and Snooping TCP.
- 4. Explain about a) Push based mechanism b) pull based mechanism.
- 5. Differentiate SDMA, TDMA, FDMA and CDMA.
- 6. Explain how optimization is achieved in Mobile IP. Explain tunneling and encapsulation in Mobile IP.
- 7. Discuss about blue tooth networks in details.
- 8. Explain how dynamic source routing protocols handles routing with an example.

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Set No. 2

IV B.Tech I Semester Supplementary Examinations, March 2013 MOBILE COMPUTING

(Common to computer science & engineering, information technology and electronics & computer engineering)

Time: 3 hours Max. Marks: 80

Answer any Five Questions All Questions carry equal marks

- 1. Discuss the following terms related to GSM.
 - a) Localization
- b) Calling
- 2. a) Why do MAC scheme in wired network fail in wireless networks and how does the multiple access with collision avoidance (MACA) works.
 - b) Explain the countermeasures for interference in SDMA, TDMA, FDMA and CDMA systems.
- 3. a) Discuss the packet delivery and registration of mobile IP.
 - b) Explain the features of tunneling and encapsulation.
- 4. Discuss Database Transactional model in detail.
- 5. What is classical TCP? What are the improvements made in Indirect TCP and Snooping TCP? Explain their mechanism and features.
- 6. Explain about MANETs. Discuss Infrastructure architecture.
- 7. Discuss in details architecture and protocol layers in Bluetooth Technology.
- 8. Discuss data delivery mechanisms in detail.

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Set No. 3

IV B.Tech I Semester Supplementary Examinations, March 2013 MOBILE COMPUTING

(Common to computer science & engineering, information technology and electronics & computer engineering)

Time: 3 hours Max. Marks: 80

Answer any Five Questions All Questions carry equal marks

- 1. Describe elaborately the various multiplexing techniques.
- 2. How is Synchronization achieved in GSM and why it is important? How system security is maintained in GSM?
- 3. a) Explain Database query Processing
 - b) Brief the Client Server computing.
- 4. a) Compare Snooping TCP with mobile TCP with example network scenario.
 - b) Discuss fast-retransmit and fast-recovery mechanisms for mobile TCP in detail.
- 5. a) Differentiate MANETs and Cellular systems.
 - b) What are all the essential features of MANET.
- 6. Discuss the configuration and profile of J2ME.
- 7. a) Discuss about IP Packet Delivery
 - b) Explain the basic configuration of DHCP.
- 8. Discuss about selective tuning and indexing techniques.

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Set No. 4

IV B.Tech I Semester Supplementary Examinations, March 2013 MOBILE COMPUTING

(Common to computer science & engineering, information technology and electronics & computer engineering)

Time: 3 hours Max. Marks: 80

Answer any Five Questions All Questions carry equal marks

- 1. What is Handover? Brief the Handover Mechanisms in GSM.
- 2. Explain the term interference in the space, time, frequency, and code domain. What are the countermeasures in SDMA, TDMA, FDMA, and CDMA systems?
- 3. Discuss about a) Director
- a) Directory method
- b) Hash based methode
- 4. a) Discuss about data recovery process
 - b) Explain client server computing architecture.
- 5. Explain the architecture and security of WAP.
- 6. Explain various methods used for congestion control in mobile transport layer.
- 7. Explain about encapsulation in Mobile IP.
- 8. Explain the various routing algorithms in MANETs.

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