Code No: R05410506 Set No.1

(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. With the help of a neat diagram, explain the reference model of wireless and mobile networks. [16]
- 2. Assume that there are N stations. Stations transmit without sensing the channel. Under what conditions the performance f this scheme is good. When the performance is poor. How carrier sensing helps to improve the situation. When carried sensing helps little. What is the suggested solution then? [16]
- 3. The goal of mobile IP is supporting end system mobility while maintaining scalability, efficiency, and compatibility in all respects with existing applications and internet protocols. Explain. [16]
- 4. Explain in detail classical enhancements to TCP for mobility. [16]
- 5. Explain in detail the transactional model of database. [16]
- 6. (a) The push based broad cast are not suitable for large data size, justify.
 - (b) Explain about on demand data scheduling. [8+8]
- 7. (a) What is MANET? How is it different from cellular system?
 - (b) What are the essential features of MANET?
 - (c) What are the applications of MANET? [6+5+5]
- 8. Write a notes on the following:
 - (a) WDP

(b) WTLS. [8+8]

Set No.2

Code No: R05410506

(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 electromagnetic spectrum? Which part of the spectrum is used for wireless and mobile communications? Consider all possibilities like building a network, cellular communications, and satellite networks etc. [16]
- 2. Suggest a multiple access scheme which give good performance in all situations.

 [16]
- 3. (a) What are the entities that are part of mobile IP? Explain them with an example network.
 - (b) What is tunneling in mobile IP? [8+8]
- 4. Compare the classical approaches to make the TCP suitable for mobile environment. Give their relative advantages and disadvantages. [16]
- 5. (a) Discuss the necessity of cache and briefly discuss about caching invalidation mechanism.
 - (b) Explain the Query processing of database. [8+8]
- 6. (a) What are the steps involved in retrieving the indexed data frames.
 - (b) Explain on-demand data scheduling scheme for variable size of items. [8+8]
- 7. What is mobile ad-hoc network? Explain in detail about MANETS. [16]
- 8. What is WAE? Discuss about its logical model. [16]

Code No: R05410506 Set No.3

IV B.Tech. I Semester Regular Examinations, November -2008 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 different mobile phone technologies.	[16]
2.	How starvation can be avoided in all multiple access schemes which you have ied. Explain in detail.	stud- [16]
3.	(a) What is the role of Home agent and Foreign agent in mobile IP?	
	(b) What are the two possibilities for location of COA?	[8+8]
4.	Explain in detail Indirect TCP.	[16]
5.	Explain the issues ensuring of QOS in mobile environment.	[16]
6.	What is indexing? Discuss the various types of indexing techniques in detail	. [16]
7.	What are the advantages of MANETS and explain in detail?	[16]
8.	Explain in detail about wireless marked language and its features.	[16]

IV B.Tech. I Semester Regular Examinations, November -2008 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 in detail about GSM.	[16]
2.	Explain how priority based multiple access schemes can be implemented.	[16]
3.	With the help of an example diagram, explain how IP packets are transferred fixed node to mobile node.	from [16]
4.	Explain in detail Snooping TCP.	[16]
5.	Explain the issues in ensuring QOS in mobile environment.	[16]
6.	What is balanced push-pull mechanism? In detail explain about IPP.	[16]
7.	What are the disadvantages of MANETS and explain in detail?	[16]
8.	(a) With a neat diagram explain the WAP architecture.	
	(b) Discuss briefly the user scenarios of Bluetooth.	[8+8]