MCN0531

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First Semester M.Tech (CNE) Examination - January 2015
(Autonomous Scheme)
Wireless Adhoc Network

Time: 3 Hrs   Max. Marks: 100

Note: Answer all the questions.

1. a)	Bring out the difference between cellular network and Adhoc network.	8
b)	Explain the classification of MAC protocol in detail.	7

OR

1. c)	Explain any five issue of Adhoc wireless network.	5
d)	Describe in detail MACA and MACA-BI protocol.	10
2. a)	Explain in detail hidden and exposed terminal problem with suitable diagram and the solution to overcome the same.	10
b)	Explain Temporally ordered Routing algorithm.	5
3. a)	Explain the issues in designing a multicast routing protocol.	7
b)	Give the details of Tree-based multicast routing protocols.	8
4. a)	Give the classification and security attacks in Adhoc wireless network.	8
b)	Describe the Split-TCP with suitable diagram.	7

OR

4. c)	Discuss briefly, why the traditional TCP does not perform well in Adhoc wireless network.	7
d)	Describe the symmetric key algorithm for security.	8
5. a)	Explain the issues and challenges in providing QOS in Adhoc wireless network.	8
b)	Explain QOS-enabled Adhoc on-demand distance vector routing protocol.	7
6. a)	Explain the need for energy management in Adhoc wireless network.	7
b)	Write a note on Battery management scheme in Adhoc wireless network.	8
7. a)	Explain MAC protocol using Directional Antennas.	2
b)	Write a note on power-Aware routing metrics.	3
c)	Explain security-aware Adhoc routing protocol.	2
d)	Give any one mesh-based multicast routing protocol.	3

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