Total No. of Questions : 10] [Total No. of Printed Pages : 2

Roll No. .....

CS–8403

B. E. (Eighth Semester) EXAMINATION, June, 2012

(Computer Science & Engg. Branch)

MANET AND HIGH SPEED NETWORK

(Elective – IV)

(CS – 8403)

Time : Three Hours

Maximum Marks : 100

Minimum Pass Marks : 35

Note : Attempt any *five* questions. All questions carry equal marks.

1. (a) With the architecture of PRNETs list the technical challenges and components of a packet radio network. 10

   (b) Discuss the various types of attacks possible over an ad hoc network. 10

Or

2. (a) How is a sensor node different from an ad hoc node ? Explain. 10

   (b) Explain the evaluation and generation of mobile cellular networks. 10

3. (a) Explain in detail the MAC protocols and the issues behind supporting channel access for ad hoc wireless networks. 10

   (b) What is multiple access with collision avoidance (MACA) ? Explain in detail. 10

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Or

4. (a) Explain the difference between synchronous and asynchronous MAC protocols. 10

   (b) What are the applications of ad hoc wireless networks ? 10

5. (a) What are the characteristics of routing protocols of ad hoc network ? 10

   (b) Give the classification of routing protocols of ad hoc network with suitable examples. 10

Or

6. (a) Explain any *one* table driven routing protocol for ad hoc network. 10

   (b) Describe any *two* hirarchical routing protocols. 10

7. (a) What are the factors needed for performance comparison of ad hoc routing protocols. 10

   (b) What is ABR Beaconing ? Explain the effect of beaconing interval on E2E delay and throughput. 10

Or

8. (a) What is Throughput ? Explain the effect of packet size and route length on throughput. 10

   (b) What are the power life issues in wireless ad hoc networks ? 10

9. (a) Explain the concept of high speed networks with suitable example. 10

   (b) What is ATM ? Explain its architecture. 10

Or

10. (a) Describe fast ethernet and high speed LANs. 10

    (b) Write a short note on AAL and Fiber channel wireless LAN. 10