

Roll No .....

**MCTA-301(F)/MCIT-301(A)****M.E./M.Tech., III Semester**

Examination, June 2014

**Ad-hoc Networks (Elective-I)***Time : Three Hours***RGPVONLINE.COM***Maximum Marks : 70**Note:* Attempt any five questions out of eight.

1. a) What are the major challenges a routing protocol faces in Adhoc wireless networks? 7  
b) Differentiate between cellular network and Adhoc network. 7
2. a) Explain hidden and exposed terminal problems in wireless networks with neat diagram. 7  
b) Describe the working of a MAC protocol using directional antennas. 7
3. a) Differentiate between Proactive and Reactive Protocols. Give examples. 7  
b) Discuss the advantages and disadvantages of Dynamic source routing protocol. 7
4. a) State any four reason that lead to the quick power drain of nodes in mobile Adhoc network. 7  
b) What is the typical value of time out period in traditional TCP? In what ways these become a problem in mobile Adhoc networks. 7

5. a) Explain how the security provisioning in Adhoc networks differs from that in infrastructure based networks. 7  
b) Explain I.F beaconing with neighbouring nodes. 7
6. a) Discuss the issues and challenges in providing QOS Adhoc wireless networks. 7  
b) Explain zone routing protocol. 7
7. a) Explain the various security attacks in Adhoc Networks. 7  
b) Describe the sensor network architecture with diagram. 7
8. Write short notes on the following: 14
  - i) Table driven protocols
  - ii) DSR routing protocols
  - iii) Ticket based QOS routing protocol
  - iv) Associativity based Adhoc multicast

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