

JAYA GROUP OF INSTITUTIONS
THIRUNINRAVUR 602024

8th Semester – B.E. / B.Tech.

INTERNAL ASSESSMENT –I(Model Examination I)

Sub. Title : **Mobile Adhoc Network**
Sub. Code : **EC 2050**
Duration : **180 minutes**

Date : **9.02.2015**
Branch : **ECE**
Max. Marks : **100**

Answer all questions
Part A - (10 x 2 = 10)

1. Define Adhoc Network
2. Write any two characteristics of wireless channel
3. Define Scalability
4. Compare Adhoc network and Wireless LAN
5. What is meant by HIPERLAN?
6. What is meant by Hybrid cellular networks?
7. What are the issues to be considered while designing a MAC protocol for Ad hoc networks?
8. Differentiate Proactive Routing from Reactive Routing
9. What are the two basic principles of CATA protocol?
10. List out the classification of MAC Protocol.

Part B - (5 x 16 = 80)

- 11.a. Illustrate the characteristics features of mobile adhoc networks and state its applications (16)
OR
b. Write in detail about Indoor and Outdoor models in adhoc mobility models (16)
- 12.a.i. Differentiate between Cellular network and Ad hoc network (8)
ii. Explain the Characteristics of wireless channel (8)
OR
b. Discuss the Pros and cons of a routing protocol that uses GPS information for an Adhoc wireless network for search and rescue operation (16)
- 13.a. Explain in detail about contention based protocols (16)
OR
b. Describe IEEE Standards 802.15 in detail (16)
- 14.a. Explain in detail about contention based protocols with reservation (16)
OR
b. Explain in detail about contention based protocol with Scheduling (16)
- 15.a. What are the advantages of reservation based MAC protocol over contention based MAC protocol? (16)
OR
b. Discuss the various HIPERLAN standard defined for wireless networks by ETSI. (16)