

12/13

**B.E/B.TECH (FULL-TIME) DEGREE EXAMINATIONS, APR/MAY 2013**

**ELECTRONICS AND COMMUNICATION ENGINEERING**

**VII SEMESTER**

**EC 9024 – WIRELESS NETWORKS**

**(REGULATIONS 2009)**

64

Time: 3 hours

Maximum Marks: 100

Answer ALL questions

**PART A – (10 x 2 = 20 marks)**

1. List out the three phases of HIPERLAN -1 MAC
2. What are the challenges in the implementation of Wireless ATM?
3. List the requirements of IMT 2000 systems.
4. How the data packet services are provided in 2.5 G network?
5. What do you meant by Hidden and Exposed terminal problem in Wireless networks?
6. What is the major difference between AODV and other On demand Routing Protocol?
7. What are the issues addressed by the Internetworking facility?
8. What do you meant by Session Mobility?
9. What are the features of 4G network?
10. What is wireless broadband access?

**PART-B (5 × 16 = 80 Marks)**

11. Describe the three types of physical layer used in 802.11 with necessary frame format

12a. With a diagram, briefly explain the 3GPP Network architecture

(OR)

12b. Describe in detail, the CDMA2000 Mobile Wireless Network Architecture

13a. With an example network, briefly explain the operation of AODV routing protocol for Adhoc wireless network

(OR)

13b. Discuss about the cluster based routing in sensor networks in detail

14a. Explain the need for internetworking and the problems associated in internetworking.

(OR)

14b. With a neat sketch, explain the Multichannel Multipoint Distribution System.

15a. Briefly explain the IMS architectural framework for delivering IP multimedia services

(OR)

15b. Explain the services and functions of MVNO.

\*\*\*