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B.E.(Full Time) DEGREE END SEMESTER EXAMINATIONS, NOV / DEC 2012
ELECTRONICS AND COMMUNICATION ENGINEERING BRANCH
SEVENTH SEMESTER
EC9024 – WIRELESS NETWORKS

(REGULATIONS 2009)

Time: 3 Hours

Max. Marks:100

Answer ALL Questions

Part-A

(10 x 2 = 20 Marks)

1. What are the functional requirements for HIPERLAN-I?
2. Discuss the features of Wireless ATM.
3. Give the features of TD-SCDMA.
4. List out the key interfaces that are exclusively used for GPRS related services in GSM architecture.
5. Compare and contrast the features of MANET and WSN .
6. Give the frame format for Zig Bee wireless standard.
7. What is GPRS? Explain in brief.
8. How the session mobility has incorporated in 3G network?
9. What is IP Multimedia Subsystem (IMS)? Give main features.
10. Describe the features of 4G network.

Part-B

(5 x 16 = 80 Marks)

11. With the help of a neat architecture diagram , Explain the functionalities of different classes of IEEE 802.11 WLAN network standard. (16)
- 12.(a) Give the system architecture of CDMA-2000 air interface standard and explain the functions each block. (16)

OR

- (b) i. What is UMTS? How it has evolved from GSM ? Explain. (10)
- ii. Give the 3GPP architecture standard for implementing UMTS network. (6)
- 13 (a) i. Give the features of On Demand routing protocol for MANET (4)
- ii. How the AODV routing protocol functions/. Explain with one example. (12)

OR

- (b) i. Discuss the RTS and CTS MAC mechanism. (6)
- ii. Explain in detail about the hierarchical routing protocols for Wireless Sensor Network(WSN). (10)

14.(a) What are the methods for interconnecting WLAN and 3G network ?. Explain any two schemes. (16)

OR

(b) How the multichannel multipoint distribution system has implemented in 3G network? Explain. (16)

15. (a) i. What is Mobile Virtual Network Operator(MVNO)?Explain . (10)

ii. How the multimedia services has incorporated in 4G network? (6)

OR

(b) Write a short note on

i. Broadband Wireless access and Services.

ii. Media convergent devices for 4G network (16)

ALL THE BEST