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**Question Paper Code : 81304**

M.E./M.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2013.

Second Semester

Computer and Communication

CP 9222/CP 922/10244 CCE 63 — WIRELESS NETWORKS

(Common to M.E -Computer Networks/M.E Network Engineering,  
M.E - Networking and Internet Engineering and M.Tech. Information and  
Communication Technology)

(Regulation 2009/2010)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Define wireless LAN.
2. What are the differences between IEEE802.11 and HIPERLAN standards?
3. What do you mean Air Interface?
4. Write the various classification of routing protocols.
5. Name any three advantages of an infrastructure topology over an adhoc network topology.
6. List the characteristics of MANETs.
7. What do mean by session mobility?
8. List the features of GPRS.
9. Give the features of 4G network.
10. What is MVNO?

PART B — (5 × 16 = 80 marks)

11. (a) Draw the protocol architecture of IEEE 802.11. Explain the MAC sublayer and MAC management layer of IEEE 802.11. (16)

Or

- (b) What are the layers available in HYPERLAN-2? Explain each layer with suitable diagram. (16)
12. (a) Explain the migration path to UMTS. (16)

Or

- (b) Explain the network structure of TD-SCDMA in detail. (16)
13. (a) Explain the table driven and source initiated on demand routing protocols in detail. (16)

Or

- (b) Explain the various MAC and routing protocol of WSN. (16)
14. (a) Explain in detail of various scheme to connect WLANs and 3G networks. (16)

Or

- (b) Explain the local multipoint distribution service. (16)
15. (a) Explain the various convergent devices in detail. (16)

Or

- (b) Explain the advanced broadband wireless access and services. (16)