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**Question Paper Code: 31873**

B.E. / B.Tech. DEGREE EXAMINATION, MAY 2017

Seventh Semester

Information Technology

01UIT703 - MOBILE COMMUNICATION SYSTEMS

(Regulation 2013)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (10 x 2 = 20 Marks)

1. What is handoff? List out its characteristics.
2. Define Carrier Sense Multiple Access with Collision Detection (CSMA/CD).
3. Differentiate between WiFi and WiMax.
4. List out the Advantages of WLANs.
5. Define VOIP.
6. Define Home Location Register (HLR).
7. What is Snooping TCP?
8. How can DHCP be used for mobility and support of mobile IP?
9. What is iMode?
10. What is Wireless Datagram Protocol?

PART - B (5 x 16 = 80 Marks)

11. (a) (i) What is a cellular system. Give their advantages and disadvantages. (10)  
(ii) Explain in detail about the motivation of wireless MAC. (6)

Or

- (b) Describe in detail about Frequency Division Multiple Access (FDMA). (16)

12. (a) Illustrate about Wireless local loop in brief. (16)

Or

- (b) Explain MANET in detail. (16)

13. (a) Why handover is important in GSM? Discuss in detail about handover procedure in GSM. (16)

Or

- (b) Explain the GPRS architecture in detail. (16)

14. (a) How can tunneling and encapsulation be performed in mobile IP? Explain. (16)

Or

- (b) Discuss the following: (i) Indirect TCP (ii) Snooping TCP. (16)

15. (a) Explain in detail the components and interfaces of the WAP architecture. (16)

Or

- (b) Explain about Wireless Markup Language with an example program. (16)