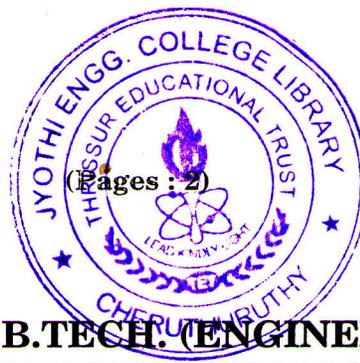


C 56287



Name.....

Reg. No.....

**EIGHTH SEMESTER B.TECH. (ENGINEERING) DEGREE  
EXAMINATION, JUNE 2009**

CS 04 804 E / IT 04 802 – MOBILE COMMUNICATION SYSTEMS  
(2004 Admissions)

Time : Three Hours

Maximum : 100 Marks

**Part A**

*Answer all questions.*

*Each question carries 5 marks.*

- I. 1. Define Signal Propagation.  
2. Differentiate Hidden and Exposed Terminal.  
3. What is hard handover and Soft handover.  
4. Which types of different services does GSM offer ?  
5. What is Hawaii ?  
6. Define Tunnelling ?  
7. Explain about Dynamic Source Routing.  
8. Define Snooping TCP.

(8 × 5 = 40 marks)

**Part B**

*Each question carries 15 marks.*

- II. 1. (a) Explain in Detail about Multiplexing and its types.  
(b) Discuss about Direct Sequence Spread Spectrum.

(8 + 7 = 15 marks)

*Or*

- (c) What is Guard Space & how it is realized between users in CDMA.  
(d) Write in Detail about Multiple Access with Collision Avoidance.

(4 + 11 = 15 marks)

2. (a) Explain in Detail about GPRS.

*Or*

- (b) Discuss about Digital audio broadcasting.

(15 marks)

**Turn over**

3. (a) Discuss the following :-

(i) Hyper LAN.

(ii) IEEE 802.11 System and Protocol architecture.

(iii) Blue tooth.

(4 + 6 + 5 = 15 marks)

*Or*

(b) Explain in detail about MAC Management.

(15 marks)

4. (a) Define IPV6. What are the advantages does the use of IPV6 offer for Mobility.

(b) Discuss about Mobile ad-hoc Networks.

(8 + 7 = 15 marks)

*Or*

(c) Explain how tunnelling works in general and especially for mobile IP using IP in IP - in- IP Minimal and generic routing Encapsulation.

(d) Explain in detail about mobile TCP.

(8 + 7 = 15 marks)

[4 × 15 = 60 marks]