

C 15904

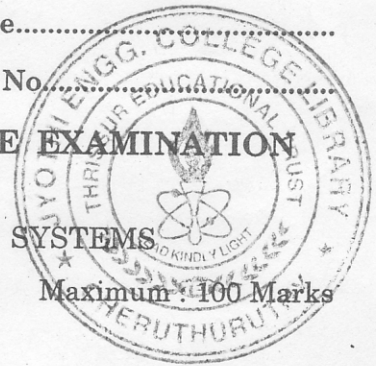
Name.....

Reg. No.....

**EIGHTH SEMESTER B.TECH. (ENGINEERING) DEGREE EXAMINATION
MAY 2011**

CS 04 804 E / IT 04 802 : MOBILE COMMUNICATION SYSTEMS

Time : Three Hours



Maximum : 100 Marks

Answer all questions.

Part A

1. (a) Write a short note on Differential PSK.
- (b) How can the gain of an antenna be improved?
- (c) Name the main elements of the GPRS system architecture and describe their functions.
- (d) Write a short note on DVB.
- (e) Illustrate various states of a Bluetooth device.
- (f) What are the functions of the registration procedure in WATM ?
- (g) Explain the purpose of using DHCP.
- (h) How to integrate WTA servers into the WAP architecture?

(8 × 5 = 40 marks)

Part B

Module I

2. (a) Explain the various methods of increasing the capacity of users in cellular system.
Or
- (b) Illustrate the TDMA based Collision avoidance MAC protocols.

Module II

3. (a) Why are so many different identifiers/addresses needed in GSM? How and where is user related data stored and protected in the GSM system?
Or
- (b) Briefly explain about system architecture and Protocol architecture of DECT.

Module III

4. (a) Briefly explain protocol architecture of HIPERLAN.
Or
- (b) Discuss MAC management functions with neat sketch.

Module IV

5. (a) What is the reaction of standard TCP in case of packet loss ? How is packet loss handled in case of wireless network ?
Or
- (b) (i) Illustrate the steps followed by MN when it moves away from home network.
(ii) Draw a neat diagram of WTA architecture. Explain.

(4 × 15 = 60 marks)