

Exam.Code:1005

Sub. Code: 7695

1128

M.E. (Information Technology)

First Semester

MEIT-104/MEIT-114: Wireless and Mobile Communication

Time allowed: 3 Hours

Max. Marks: 50

NOTE: Attempt five questions in all, including Question No. 1 which is compulsory and selecting two questions from each Unit.

x-x-x

- I. Attempt the following:-
- What is a basic cellular system?
 - Is EDGE 2G or 3G? Give reasons in support of your answer.
 - What is the significance of multiple access techniques?
 - Define fading and name its types.
 - What is tile coverage range of Bluetooth, WiFi and WiMax? (5x2)

UNIT - I

- II. Explain how has wireless communication system evolved over the last few years in terms of speed and data rate. (10)
- III. What do you mean by hand-off in cellular communication? Discuss the different types of hand-off strategies, highlighting their characteristics, advantages and disadvantages. (10)
- IV. List the features of GSM system. What is the frequency range supported by GSM architecture? (10)

UNIT - II

- V. Discuss FDMA and SDMA in detail. (10)
- VI. What do you understand by Diversity? Describe different types of Diversity schemes as applicable to wireless, communication. (10)
- VII. What is Bluetooth? How does it work? Explain CDMA-2000 standard laying emphasis on its features, characteristics and applications. (5,5)

x-x-x