

Exam.Code:0924
Sub. Code: 6851

1048
B.E. (Information Technology)
Sixth Semester
ITE-641: Wireless 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. Explain the following:

- a) Need of 4G Communication
- b) Advantage of TDMA
- c) Need of Frequency reuse
- d) Mobile communication
- e) Concept of Zone
- f) Cell breathing
- g) Soft handoff
- h) Channel coding
- i) Application of WSN
- j) Evolution of LTE

(10x1)

UNIT – I

- II. Explain 2.5 G and 3 G communication. Also explain the comparison of common wireless communication systems. (10)
- III. Explain various assignment strategies and handoff strategies. Explain with the help of diagrams various multiple access techniques. (10)
- IV. With the help of diagram explain GSM architecture and control channels required in GSM. (10)

UNIT – II

- V. Explain mobile data over CDMA and how CDMA differs from GSM. (10)
- VI. Explain various diversity techniques and channel equalization, with the help of diagram. (10)

P.T.O.

(2)

VII. Explain the following technologies and their applications:-

- a) WiFi
- b) WiMax
- c) EDGE
- d) LTE

(10)

x-x-x