

Roll No. _____

3549

**B. Tech. 7th Semester (ECE) Professional
Elective-II
Examination – February, 2022**

WIRELESS COMMUNICATION

Paper : PECECT-409-C

Time : Three Hours]

[Maximum Marks : 75

Before answering the questions, candidates should ensure that they have
been supplied the correct and complete question paper. No complaint in
this regard will be entertained after examination.

Note : Attempt five questions in all, selecting one question
from each Unit. Question No. 1 is compulsory. All
questions carry equal marks.

1. Define :

5 × 3 = 15

- (a) Multiplexing
- (b) Multiple access technique
- (c) Mobile station
- (d) Mobile switching centers
- (e) Hand off

UNIT - I

- 2. (a) Compare various wireless systems. 7.5
- (b) How a call is made in a cellular system? 7.5

3. Elaborate Path loss model in wireless communication. 15

UNIT - II

4. Explain ZigBee with its types. 15

5. With neat and clean diagram explain FANS? 15

UNIT - III

6. With suitable diagram explain spread spectrum multiple access? 15

7. Define throughput and delay in context to ALOHA? Determine the maximum throughput put that can be achieved using ALOHA and Slotted ALOHA protocols? 15

UNIT - IV

8. Explain practical space diversity considerations. 15

3549. (P-3)/(Q-9)/(22) (2)

9. Write short note on any two. 7.5 x 2

- (a) MIMO
- (b) OFDM
- (c) Rake receiver

3540. (P-3)/(Q-9)/(22) (3)