

No. of Printed Pages : 03

Roll No.

CC-61

M. Tech. EXAMINATION, May 2018

(Third Semester)

(Re-appear Only)

ECE/Industry Integrated

MTEC601B

ADVANCED WIRELESS COMMUNICATION
SYSTEM

Time : 3 Hours]

[Maximum Marks : 75

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

Note : Attempt *Five* questions in all, selecting at least *one* question from each Part. All questions carry equal marks.

(3-22/9) M-CC-61

P.T.O.

Part A

1. (a) Illustrate various technologies to improve covered capacity in cellular system. **10**
(b) What is Bluetooth ? **5**
2. (a) Differentiate between fixed and wireless telephone networks. **7½**
(b) What do you understand by 2G, 2.5G and 3G mobile telephone standards ? **7½**

Part B

3. Explain the following models : **15**
(a) Hata Model
(b) Okumura Model
(c) Log distance Path Loss Model.
4. Explain the following : **15**
(a) Soft handoff
(b) Hard handoff
(c) Intersystem hand off.

Part C

5. Compare TDMA/FDMA/CDMA. **15**
6. Explain in detail the spread spectrum technique employed in IS-95 CDMA. **15**

Part D

7. (a) Differentiate between TCP/IP and OSI Models. **7**
(b) Explain the intelligent cell concept in detail. Where is it used ? **8**
8. Write short notes on any *two* of the following : **7½, 7½**
(a) ISDN
(b) Switching Techniques in Wireless Networking
(c) Advanced Intelligent Networks.