

Roll No. ....

**22665**

**M. Tech 2nd Semester (ECE) CBCS  
Scheme Examination – May, 2018**

**WIRELESS MOBILE COMMUNICATION**

**Paper : MTECE22C1**

*Time : Three Hours ]*

*[ Maximum Marks : 100*

*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 any *five* questions in all. Selecting *one* question from each Section. Question No. 1 is *compulsory*. All questions carry equal marks.

1. (a) What do you mean by cellular system ? 5
- (b) Explain mobile radio communication in brief. 5
- (c) What do you mean by CDMA ? 5
- (d) Explain GSM. 5

### SECTION – A

2. What do you mean by Handoff ? Explain different Handoff strategies in detail. Discuss about various priorities in Handsoff. 20
3. (a) Explain trucking and grade of service in detail. 10
- (b) Write down the process of making a cellular telephone call. 10

### SECTION– B

4. (a) Explain long distance path loss model in detail. 10
- (b) What do you mean by Doppler spread ? Explain. 10
5. Explain Multipath characteristics of Radio waves and signal fading in detail. 20

### SECTION – C

6. (a) What do you mean by TDMA and FDMA ? Compare them. 10
- (b) What do you mean by packet radio ? Explain different packet radio techniques in detail. 10

7. (a) Explain the capacity of cellular CDMA. 10
- (b) What do you mean by Soft Handoff ? Explain. 10

### SECTION – D

8. (a) Explain the architecture of GSM in detail. 10
- (b) Explain different Wireless Data Services. 10
9. Write short notes on any *two* of the following : 20
- (a) Mobility Management
- (b) IS 95
- (c) GPRS