

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

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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