

22665

M.Tech 2nd Semester (ECE) CBCS Scheme

Examination, May-2017

WIRELESS MOBILE COMMUNICATION

Paper-MTECE-22C1

Time allowed : 3 hours]

[Maximum marks : 100

Note : Attempt any five questions. All questions carry equal marks.

1. (a) What do you mean by paging system ? 5
- (b) Explain the term Handoff. 5
- (c) What do you mean by TDMA ? 5
- (d) Explain GPRS. 5

Section-A

2. (a) Explain the basic cellular system. How it operates ? 10
- (b) Explain the concept of Frequency Reuse. 10
3. (a) Explain trunking and grade of service in detail. 10
- (b) What do you mean by Cell splitting ? Explain. 10

Section-B

4. (a) Explain Hata model in detail. 10
- (b) Explain the mechanism of Propagation. 10

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5. Explain Multipath characteristics of radio waves and signal fading in detail. 20

Section-C

6. (a) Explain Near far problem in CDMA. 10
(b) Differentiate between pure ALOHA and slotted ALOHA. 10
7. (a) Compare TDMA and FDMA. 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 performance analysis of link and transport layer protocols. 10
9. Write short notes *any two* of the following : 20
(a) Location tracing
(b) IS 95
(c) Mobile IP