

MASTER OF BUSINESS ADMINISTRATION

Term-End Examination

June, 2014

**MCTE-020 : GLOBAL SYSTEM FOR MOBILE
COMMUNICATION**

Time : 3 hours

Maximum Marks : 100

*Note : Answer **any five** questions. All questions carry equal marks.*

1. Explain with diagram, the process of Analog to Digital Converter (ADC). What is Digital Speech Compression ? 20
2. What are Normal and Random Access Burst ? Explain with diagrams. 20
3. Explain basic overview of GSM architecture and channel structure. 20
4. Describe various GSM channels structure. 20
5. Describe Cellular Radio System. Elaborate cellular network planning and optimization. 20
6. Explain the 'Open BTS' and its software architecture. 20
7. Explain the process of 'Frequency Reuse' with diagram. 20

8. Write short notes on any three : 20
- (a) PSTN
 - (b) Mobile Switching Centre (MSC)
 - (c) Discontinuous Reception (sleep mode)
 - (d) Slow frequency napping
 - (e) Supplementary device of GSM
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