

MASTER OF BUSINESS ADMINISTRATION

Term-End Examination

December, 2012

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

00163

Time : 3 hours

Maximum Marks : 100

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

1. (a) What do you understand by GSM ? Explain the architecture of a GSM Network. **10**
- (b) What is handoff in a cellular system ? Why is handoff used ? **10**
2. Describe Cellular Radio System ? Elaborate Cellular Network Planning and Optimization. **20**
3. (a) Differentiate between GSM and GPRS ? **10**
- (b) Explain the supplementary services provided by GSM. **10**
4. Explain the following : **20**
 - (a) GSM Frequency Bands
 - (b) Voice Codec's
5. (a) What is Mobile Subscriber Identity Module (SIM) ? **10**
- (b) Explain the Authentication key process followed in SIM. **10**

6. What are the issues related to GSM security ? 20
Explain in detail.
7. (a) What is Mobile Registration ? Why is it used ? 10
(b) Describe Visitor Location Register. 10
8. Explain the following :
- (a) International Mobile Equipment Identity. 10
(IMEI)
- (b) Difference between GSM & GPRS. 10
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