

**MASTER OF BUSINESS ADMINISTRATION**

**Term-End Examination**

**June, 2013**

**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 International Mobile Subscriber Identity (IMSI) with examples to IMSI numeric presentation. **20**
2. What is a GSM Network ? Describe the Architecture of the GSM Network. **20**
3. Explain how GPRS is related to GSM. Also differentiate the Two. **20**
4. What is Open BTS ? Explain the Software Architecture of the Open BTS. **20**
5. (a) Explain the frequency Bands Spectrum used in GSM. Explain by taking proper examples. **10**  
(b) List the main features of 3G systems. **10**

6. Explain the Cellular Architecture. What is adjacent channel interferences ? How it can be minimized ? 20
7. How is Mobile Registration done ? Explain the Authentication key process. 20
8. Explain the following : 20
- (a) Frequency Reuse
  - (b) International Mobile Equipment Identity (IMEI)
  - (c) Supplementary services of GSM
  - (d) Data Security in GSM
-