

**MASTER OF BUSINESS ADMINISTRATION  
(MBACT)**

**Term-End Examination**

**June, 2015**

00321

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

*Time : 3 hours*

*Maximum Marks : 100*

---

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

---

---

1. What is Mobile Subscriber Identity Module (SIM) ? Explain Authentication key process. 20
2. Explain "GSM" security and the issues related to it. 20
3. Describe Visitor Location Register (VLR). Explain the primary functions of VLR. 20
4. Explain Cellular Radio System. Describe Cellular Network planning and optimization. 20
5. What is a GSM Network ? Describe the Architecture of the GSM Network. 20

6. Differentiate between GSM and GPRS. Describe the supplementary services provided by GSM. 20
7. Explain the following : 10+10=20
- (a) Open BTS
  - (b) Handoff in a Cellular System
8. Write short notes on any *two* of the following : 10+10=20
- (a) SMS
  - (b) GSM Frequency Bands
  - (c) International Mobile Equipment Identity (IMEI)
  - (d) Echo Cancellation
-