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**MASTER OF BUSINESS ADMINISTRATION**

**Term-End Examination**

**June, 2012**

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

*Time : 3 hours*

*Maximum Marks : 100*

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

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1. Explain Briefly the following : 20
  - (a) Supplementary services of GSM
  - (b) Mobile Subscriber Integrated Services  
Digital Network Number (MSISDN)
  - (c) International Mobile Equipment Identity  
(IMEI)
  - (d) Difference between GSM & GPRS
  
2. Describe visitor location register (VLR). Explain 20  
the primary functions of VLR.
  
3. What is the open BTS ? Explain the software 20  
Architecture of the open BTS.
  
4. What is the mobile Subscriber Identity Module 20  
(SIM) ? Explain Authentication key process.

5. Explain the following : 20
    - (a) GSM frequency bands
    - (b) Voice codec.
  
  6. Describe Cellular Radio System. Elaborate cellular Network planning and optimization. 20
  
  7. What is a GSM network ? Describe the Architecture of the GSM network. 20
  
  8. Explain International Mobile Subscriber Identity (IMSI) with examples of IMSI numeric presentation. 20
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