

**MASTER OF BUSINESS ADMINISTRATION
(MBACT)**

Term-End Examination

00239

December, 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. What is GSM network ? Describe the architecture to the GSM network. 20
2. Describe Cellular Radio system. Elaborate Cellular network planning and optimization. 20
3. Explain the following : 20
 - (a) Handoff in a Cellular system
 - (b) GSM Frequency Bands
4. Differentiate between GPRS and GSM. Explain the supplementary services provided by GSM. 20

5. Explain in detail, the Visitor Location Register and its primary functions. 20
6. Explain GSM security. What are the issues related to it? 20
7. What is Open BTS ? Explain the software architecture of the Open BTS. 20
8. Explain any **two** of the following : 10+10=20
- (a) Difference between GSM and GPRS
 - (b) Mobile Subscriber Integrated Service Digital Network Number (MSISDN)
 - (c) Mobile Subscriber Identity Module (SIM)
 - (d) Authentication key process followed in SIM
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