

**MASTER OF BUSINESS ADMINISTRATION
(MBACT)**

Term-End Examination

June, 2013

**MCTE-018 : NETWORKING IN
TELECOMMUNICATION**

Time : 3 hours

Maximum Marks : 100

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

1. Explain the term 'Signalling'. Explain the 'SS7' network Architecture. **20**
2. What are the elements of telecommunication systems. List the various methods of transmission systems. **20**
3. Explain Open Systems Interconnection (OSI) model Architecture with illustrations and diagrams. **20**
4. Briefly explain the different communication stands : **20**
 - (a) International Standards Organization (ISO)
 - (b) The Consultative Committee for International Telegraph and Telephone (CCITT)
 - (c) Institute to Electrical and Electronic Engineers (IEEE)
 - (d) Electronic Industries Association (EIA)

5. Discuss and compare the advantages and disadvantages of circuit switching versus packet switching. Name at least one well - known network which is based on either type of switching. 20
6. Explain the following with examples : 4x5=20
- (a) Multiplexing
 - (b) Space Division Multiplexing (SDM)
 - (c) Frequency Division Multiplexing (FDM)
 - (d) Time Division Multiplexing (TDM)
7. (a) Describe the differences between modulation and digitization. Name the devices that perform these functions. 10
- (b) Describe the differences between 'RS-232' and 'X21' standards. Provide an application example of either standard. 10
8. Write short notes on the following : 4x5=20
- (a) OMG
 - (b) CORBA
 - (c) TINA
 - (d) Mobile Agents
-