

**IV B.Tech II Semester Supplementary Examinations, Apr/May 2006**  
**TELEMATICS**  
**(Information Technology)**

**Time: 3 hours**

**Max Marks: 80**

**Answer any FIVE Questions**  
**All Questions carry equal marks**

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1. Explain how the gauge of the wire effects the distance in connecting the systems and what is the minimum and maximum allowable current in the circuit? [16]
2. What are the strowger switching components and Design parameters? [16]
3. What is the need of E-mail privacy? How does PGP ( Pretty Good Privacy) enhance the privacy? [16]
4. What are the standards of MBone- Multicast Backbone? [16]
5. What is an ISDN? Give examples of the following user services related to ISDN
  - (a) Bearer-Services
  - (b) Tele-Services. [4+6+6]
6. Explain about the following
  - (a) ISDN - ISDN Inter working.
  - (b) ISDN - PSTN Inter working.
  - (c) ISDN - CSPDN Inter working.
  - (d) ISDN - PSPDN Inter working. [4+4+4+4]
7. Write in detail about Link Coding Techniques in ISDN? [19]
8. (a) Explain about Bearer Capability Information Element in ISDN Q.931 message format?
  - (b) Explain Call Control Protocol Architecture in ISDN? [8+8]

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