

## **IP Telephony (Midterm Exam)**

**May 3, 2004**

1. What does “carrier grade” mean for VoIP services? (5%)
2. Why is voice carried over UDP, not TCP? (10%)
3. Describe the functions provided by RTP and RTCP. (20%)
4. Elaborate on the advantages of SIP over H.323. (5%) Also describe the functions of SIP network entities: UAC, UAS, Proxy Server, Redirect Server, Registrar. (24%)
5. SIP Messages
  - (a) Describe the functions of the following SIP headers: To, From, Contact, Via, CSeq, Expires, Content-Type, Retry-After, Record-Route and Route. (30%)
  - (b) What is the difference between Request-URI and From, To headers in SIP REGISTER? (6%)