

**Code No: C6108, C6508**

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**

**M.Tech I - Semester Examinations March/April-2011**

**VOICE OVER INTERNET PROTOCOL**

**(COMMON TO COMMUNICATION SYSTEMS, WIRELESS & MOBILE COMMUNICATIONS)**

**Time: 3hours**

**Max.Marks:60**

**Answer any five questions  
All questions carry equal marks**

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1. (a) Write about the Transmission Control Protocol.  
(b) Discuss the Interworking of IPv4 and IPv6. [12]
2. (a) Explain the IP Multicast mechanism.  
(b) Brief about the VoIP challenges. [12]
3. Describe the H.323 Architecture and signaling in detail. [12]
4. (a) Explain the SIP messaging syntax.  
(b) Describe the usage of SDP with SIP. [12]
5. What do you mean by QoS and explain end to end quality of Service in detail. [12]
6. (a) Explain the resource reservation protocol to achieve QoS.  
(b) Explain the functions of MPLS. [12]
7. Explain the SS7 Protocol Suite with its sub parts with neat diagrams. [12]
8. (a) Write short notes on Sigtran.  
(b) What is M2PA and explain its operation. [12]

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