

**Advanced Internet Technology  
(IT-6, Dec05)**

**Note:** Section A is compulsory. Attempt any four questions from Section-B and any two from Section-C.

**Section-A**

1. a) What is R Login used for?  
b) With which application is SMTP used?  
c) What is meant by pocket timeout?  
d) What is a protocol?  
e) What is SLIP used for?  
f) Differentiate between a port and a socket?  
g) Why does TCP/IP model have so many layers?  
h) What is the role of physical layers?  
i) What does subnet mask denote?  
j) What services do port no. 21 & 23 signify?

**Section-B**

2. Explain the TCP packet header along with 3-way connection.
3. What does UDP format look like? Differentiate between connectionless & connection oriented services.
4. What is IP addressing? Explain various classes of IP addressing?
5. Explain TCP/IP layered model along with functionality of each layer.
6. What services do ARP and RARP offer? At which layer are they implemented?

**Section-C**

7. What are the different services offered by ICMP protocol? Explain.
8. a) What are the various IP routing principles?  
b) What is the difference between static and dynamic routing?
9. a) What is Dais used for?  
b) Explain Telnet and FTP services.