

**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.