MCA – 51

V Semester M.C.A. Examination Feb./March 2010
ADVANCED COMPUTER NETWORK AND SECURITY

Time : 3 Hours Max. Marks: 100

PART – A

1. What do you mean by Computer Networks?
2. What is subnet ?
3. What do you mean by Routing ?
4. What is quality of service ?
5. What are the two protocols of transport layer ?
6. What is RPC ?
7. What is DNS ?
8. What is Ciphertext ?
9. What do you mean by Simplex, Half duplex and Full duplex communication ?
10. What are connection oriented and connectionless services? Give an example.
11. Explain multicast routing.
12. Give the format of IP Header.
13. Write a note on POP3.
14. What are services, mechanisms and attacks ?

P.T.O.

PART – B

1. Explain flooding.
2. Explain general principles of congestion control.
3. What are the techniques for achieving good QoS ?
4. Explain MIME.
5. Explain model for Network Security with a neat figure.
6. Explain cryptanalysis.
7. Write a note on data encryption standard.
8. Write a note on e-mail security.

PART – C

1. Explain Bellman Ford Routing Algorithm for distance vector routing.
2. Explain :

   a) Leaky Bucket Algorithm b) Token Bucket Algorithm.
3. Explain the elements of Transport Protocol in detail.
4. Explain Real Time Transport Protocol.
5. Explain OSI Security Architecture.
6. Explain RSA Algorithm with an example.

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