

VI Semester B.C.A. Examination, Feb./March 2010  
COMPUTER NETWORK AND SECURITY

Time: 3 Hours

Max. Marks : 80

- Instructions :** 1) Answer *all* questions in Part A, 6 out of 8 questions in Part B, and 3 out of 5 questions in Part C.  
2) Part A : Questions from 1 to 8 carry 1 mark and 9 to 14 carry 2 marks *each*.  
3) Part B : *Each* question carries 5 marks  
4) Part C : *Each* question carries 10 marks.

PART – A

1. What is congestion?
2. Define jittering.
3. What is the use of DNS ?
4. What is cipher?
5. Define LAN.
6. What is the use of NAT ?
7. Define packet.
8. What is the use of SMTP ?
9. Give diff. between classes B, C address.
10. Discuss optimality principle.
11. Mention transport layer service primitives.
12. What are active attacks ?
13. What is multicast address ?
14. Discuss WAN.

P.T.O.



PART – B

1. Discuss hierarchical routing.
2. Write IP4 header.
3. Mention some appln of Computer network.
4. Discuss broadcasting routing.
5. Discuss internet work with example.
6. Explain tunneling.
7. Give diff. between transport layer and data link layer.
8. Explain silly window syndrome.

PART – C

1. Explain the hierarchy of DNS domain name servers.
  2. Explain TCP connection release.
  3. Discuss S/MIME.
  4. Explain simplified DES.
  5. Explain shortest path routing algorithm with example.
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