



**SB-1469**  
**Second Year B. C. A. (Sem. IV) Examination**  
**March / April – 2011**  
**405 : Computer Network**  
*(Old Course)*

Time : Hours]

[Total Marks :

**Instructions :**

(1)

|  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|
| <p>નીચે દર્શાવેલ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.<br/>         Fillup strictly the details of signs on your answer book.</p> <p>Name of the Examination :</p> <p><b>S. Y. B. C. A. (Sem. 4)</b></p> <p>Name of the Subject :</p> <p><b>405 : Computer Network (Old)</b></p> <p>Subject Code No. : <b>1 4 6 9</b> Section No. (1, 2,.....) : <b>Nil</b></p> | <p>Seat No. :</p> <table border="1" style="width: 100%; height: 20px; border-collapse: collapse;"> <tr> <td style="width: 15%;"></td> <td style="width: 15%;"></td> <td style="width: 15%;"></td> <td style="width: 15%;"></td> <td style="width: 15%;"></td> <td style="width: 15%;"></td> </tr> </table> <div style="border: 1px solid black; border-radius: 15px; width: 100%; height: 60px; margin-top: 10px; display: flex; align-items: center; justify-content: center;"> <p>Student's Signature</p> </div> |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

- (2) All questions are compulsory.
- (3) Figure on right indicate marks.
- 1 (a) Answer in brief (any five) 10
- (i) What is MAC layer ? What are its functions ?
  - (ii) What are the limitations of UTP and co-axial cable ?
  - (iii) What is server ? List out various servers available.
  - (iv) What is acknowledgement ? Why it is necessary in Computer Network ?
  - (v) List protocols that work at transport layer and Application Layer.
  - (vi) Explain LAN and WAN.
  - (vii) What do you mean by half duplex and full duplex communication ?
- (b) What is computer network ? Explain why networking is used ? Which are the disadvantages of stand-alone computer ? 6
- 2 Do as directed (any three) 15
- (a) Write note on application servers.
  - (b) Differentiate between TCP and UDP.
  - (c) Explain base band and broadband co-axial cable
  - (d) Explain the terms telecasting and multicasting.

- 3** Answer in detail (any four) **24**
- (i) Write a note on managing network bindings.
  - (ii) What are the differences between peer to peer and client-server network ?
  - (iii) Write a note on domain and work group.
  - (iv) Explain different transmission media used in computer network.
  - (v) Write a note on Firewall.
- 4** Write a short note (any three) **15**
- (i) Explain about different switching techniques.
  - (ii) Write down steps for installing and configuring NIC.
  - (iii) Compare Router and Bridge.
  - (iv) Digital signature.
-