



**RF-1864**

**B. C. A. (Sem. IV) Examination**

**April / May – 2010**

**Paper - 405 : Computer Network**

Time : Hours]

[Total Marks : 70

**Instruction :**

નીચે દર્શાવેલ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.  
Fillup strictly the details of signs on your answer book.

Name of the Examination :  
**B. C. A. (Sem. 4)**

Name of the Subject :  
**Paper - 405 : Computer Network**

Subject Code No. : **1 8 6 4** Section No. (1, 2,.....): **Nil**

Seat No. :

Student's Signature

- 1 (a) Answer the following question in short : (any **five**) **10**
- (i) What are the limitations of bus topology?
  - (ii) What is cryptography?
  - (iii) Define term bandwidth and transmission rate.
  - (iv) List out the uses of network.
  - (v) What is network?
  - (vi) Write steps to share printer on network.
  - (vii) Explain Multiple Transport Stack and network binding.
- (b) Write concept of Firewall. How does it helpful in computer network? **6**
- 2 Do as directed : (any **three**) **15**
- (i) What is TCP/IP? What are the steps to install and configure it?
  - (ii) Explain switching in brief.
  - (iii) How to provide security with "public key algorithm"?
  - (iv) Write note on data link layer.

- 3** Attempt any **three** : **24**
- (i) Discuss OSI reference model in detail.
  - (ii) Explain Mesh and Ring topology.
  - (iii) Which are the various transmission media? Explain functionality of fiber optics in detail.
  - (iv) Explain client and server as primary component.
  - (v) What is server operating system? Explain the feature of server of Operating System in brief.
- 4** Write short note on following : (any **three**) **15**
- (i) NIC
  - (ii) Gateway
  - (iii) Application Server
  - (iv) LAN
  - (v) Ethernet.
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