



SB-1465
Second Year B. C. A. (Sem. IV) Examination
March / April – 2011
Computer Network : 405
(New Course)

Time : 3 Hours]

[Total Marks : 70

Instructions :

(1)

<p>નીચે દર્શાવેલ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી. Fillup strictly the details of signs on your answer book.</p> <p>Name of the Examination : S. Y. B. C. A. (Sem. 4)</p> <p>Name of the Subject : Computer Network : 405</p> <p>Subject Code No. : 1 4 6 5 Section No. (1, 2,.....) : Nil</p>	<p>Seat No. : <input type="text"/><input type="text"/><input type="text"/><input type="text"/><input type="text"/><input type="text"/><input type="text"/></p> <div style="border: 1px solid black; border-radius: 15px; height: 60px; display: flex; align-items: center; justify-content: center; margin-top: 10px;"><p>Student's Signature</p></div>
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- (2) All questions are compulsory.
(3) Figures on right indicate marks.

- 1 (a) Answer in brief : (any five) 10
- (1) Define the term, Computer Network.
 - (2) Enlist different topologies used in Computer Network.
 - (3) What do you mean by Encryption ?
 - (4) Explain the concept of client and server.
 - (5) Differentiate between Router and Brouter.
 - (6) Which protocols are applicable at Application Layer ?
 - (7) What do you mean by subnet mask ?
- (b) Explain features of different server operating system ? 6
- 2 Do as directed : (any three) 15
- (a) Explain co-axial cable in detail.
 - (b) What are the differences between peer to peer and client-server network.
 - (c) Write a note on sharing files and printers over network.
 - (d) Explain public-key algorithm.

- 3** Answer in detail : (any **three**) **24**
- (1) Explain bus topology along with its advantages and disadvantages.
 - (2) Explain IEEE 802.3 standard in detail.
 - (3) Discuss OSI reference model in detail.
 - (4) Explain different transmission media used in computer network.
 - (5) Explain about switches.
- 4** Write notes on : (any **three**) **15**
- (1) Digital Signature.
 - (2) IPX/SPX and UDP.
 - (3) Firewall.
 - (4) Router and Gateway.
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