



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)

नीचे दृशावेल निशानीवाणी विगतो उत्तरवडी पर अवश्य लपवी.  
Fillup strictly the details of signs on your answer book.

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

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

Subject Code No. : **1 4 6 5** Section No. (1, 2, ....) : **Nil**

Seat No. : 

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Student's Signature

- (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.

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- 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.