



P-3774

Third Year B. C. A. (Sem. V) (CBCS) Examination
March/April – 2014
503 : Network Technologies

Time : 3 Hours]

[Total Marks : 70

Instructions :

(1)

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| नीचे दशांशके निशानीवाणी विगतो उत्तरवही पर अवश्य दमवी. Fillup strictly the details of signs on your answer book. | Seat No. : |
| Name of the Examination : | <input type="text"/> |
| T. Y. B. C. A. (Sem. 5) (CBCS) | <input type="text"/> |
| Name of the Subject : | <input type="text"/> |
| 503 : Network Technologies | <input type="text"/> |
| Subject Code No. : <input type="text" value="3"/> <input type="text" value="7"/> <input type="text" value="7"/> <input type="text" value="4"/> | Student's Signature |
| Section No. (1, 2,.....) : <input type="text" value="NIL"/> | |

- (2) All questions are compulsory.
(3) Do not interchange subquestions.

1 Answer the following question in brief : 10

- (i) Explain Nyquist bit rate.
- (ii) What is the function of SMTP and HTTP?
- (iii) Differentiate between baseband and broadband transmission.
- (iv) Explain NTFS feature of Windows NT operating system.
- (v) Define Network Protocols.

2 Answer the following question : (any four) 20

- (i) Discuss bus topologies in detail.
- (ii) Explain digital certificates in detail.
- (iii) Discuss LAN and WAN.
- (iv) Explain User datagram with its applications.
- (v) Write a note on fiber optic cable with its advantages and disadvantages.

3 Answer the following question in detail : (any three) 24

- (i) Write a note on Satellite communication.
- (ii) Write a note on different server types.
- (iii) Explain Firewall.
- (iv) Write a note on TCP with its header.

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[Contd...

- 4 (a) Explain the responsibility of three upper layers of OSI model. 6
- (b) Explain common features of different network operating system. 8

OR

- (b) Write a note on wireless networks. 8
- (c) Differentiate between IP address and MAC address. 2