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Third Year B.C.A. (Sem. V) Examination
March / April – 2015
Paper - 503 : Network Technologies

Time : **3 Hours]**   **[Total Marks : 70**

Instructions :

(1)

(2)   All questions are compulsory.

(3)   Do not interchange sub questions.

1   Answer the following question in brief.   **10**

(1)   Define analog and digital signals.

(2)   What is on-line storage, offline storage and near-line storage?

(3)   What are advantages and disadvantages of Bus topology?

(4)   Define the term: baud and bandwidth.

(5)   Briefly explain dedicated servers.

2   Answer the following question. (Any 4)   **20**

(1)   Define the term Cryptography. Write a note on Asymmetric Cryptography.

(2)   Write a note on twisted pair cable.

(3)   Write a note on UDP.

(4)   Explain the responsibilities of application and presentation layers of OSI model.

(5)   Explain print server and message server.

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3   **Answer the following question in detail. (any 3)**   **24**

     (1)   Explain peer Networks. Discuss advantages and disadvantages of it.

     (2)   Discuss need, uses and advantages of network.

     (3)   Write a note on Firewall.

     (4)   Explain common features of different network operating system.

4   (a)   Explain satellite communication.   **8**

     (b)   Explain wireless ad-hoc network and wireless Sensor Network.   **8**

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OR

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     (b)   What is segment? Explain each fields of TCP segment.   **8**

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