



G-3774

Third Year B. C. A. (Sem. V) Examination
November / December – 2014
503 : Network Technologies

Time : 3 Hours]

[Total Marks : 70

Instructions :

(1)

नीचे दशांकित निशानीवाणी विगत उत्तरवही पर अवश्य लिखनी. Fillup strictly the details of signs on your answer book.	Seat No. :
Name of the Examination :	
T. Y. B. C. A. (Sem. 5)	
Name of the Subject :	
503 : Network Technologies	
Subject Code No. 3 7 7 4	Section No. (1, 2,): NIL
Student's Signature	

(2) All questions are compulsory.

(3) Do not interchange subquestions.

Q:-1 Answer the following question in brief.

[10]

1. Explain Block Ciphers.
2. Explain the significance of hardware-software protocol.
3. Differentiate between guided media and unguided media.
4. Why is there a twist in twisted pair cable? Justify.
5. Briefly explain client operating system.

Q:-2 Answer the following question.(any 4)

[20]

- 1) Write a note on co-axial cable.
- 2) Write a short note on ring topology.
- 3) Explain IP address and IP subnet.
- 4) Explain PKI.
- 5) Define protocol? Explain different types of network protocols.

Q:-3 Answer the following question in detail. (any 3)

[24]

- 1) Explain wireless transmission media.
- 2) What is network operating system? Compare features of any two network operating systems.
- 3) Discuss peer networks with their advantages and disadvantages.
- 4) Explain star and ring topology with their advantages and disadvantages.

Q:4(a) Explain network & transport layer of OSI model.

[8]

(b) Write a note on TCP operation.

[8]

OR

(b) Discuss hardware and software resource sharing.

[8]

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[3600]