

RE-3774

B. C. A. (Sem. V) (CBCS) Examination

March / April - 2017

Network Technologies - 503

(New Course)

Time : 3 Hours]

[Total Marks : 70

Instructions :

(1)

नीचे दशादिब निशानीवाजी विगतो उतासयती पर अवश्य दपवी. Fillup strictly the details of signs on your answer book.	Seat No.
Name of the Examination :	
B. C. A. (SEM. V) (CBCS)	
Name of the Subject :	
NETWORKTECHNOLOGIES - 503 (NEW COURSE)	
Subject Code No. : 3 7 7 4	Section No. (1, 2.....) : Nil
	Student's Signature

(2) Write to the point.

(3) Provide examples and diagrams wherever appropriate / necessary.

(4) Figures to the right indicate full marks of the question.

1 (a) Answer in brief : (Any Five)

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(1) What is Cipertext?

(2) Explain the concept of Peer to Peer Architecture.

(3) Explain the term : Frequency and Nyquist Ratio

(4) Explain Guided Communication Media. List any three examples.

(5) Explain Token Passing Mechanism in Ring Topology.

(6) Write the differences between Repeater and Hub.

Cipertext IS encrypted text

(b) Explain in detail how the information flows from one host to another in OSI based system.

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2. Do as directed - (Any Three)

- (1) How Switches differ from Hub?
- (2) Explain Application Layer and Presentation Layer components and functions.
- (3) Mention the advantages and disadvantages of Fiber Optics.
- (4) What is header? Explain each field of TCP header.

3 Attempt : (Any Three)

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- (1) What is an IP address? Explain different classes of IP address. Also explain the default mask for each category of IP classes.
- (2) What is Network Hub? Write its applications. Explain the different types of Hub used for network with diagram.
- (3) Explain the Bus type topology and Ring type topology networks. Compare their performances.
- (4) What is Firewall? What are the functions of Firewall? Explain the types of firewall in detail.

4 Write short notes on the following : (Any Three)

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- (1) TCP/IP model
- (2) Public Key Infrastructure
- (3) Bridges
- (4) Wireless Network.