



ML-3774

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

October / November – 2015

503 - Network Technologies

Time : Hours]

[Total Marks : 70

Instructions :

(1)

नीचे दशांशक निशानीवाणी विगतो उत्तरवडी पर अवश्य कपवी. Fillup strictly the details of signs on your answer book.	Seat No. :
Name of the Examination :	<input type="text"/>
<input type="text" value="B. C. A. (SEM. 5) (CBCS)"/>	<input type="text"/>
Name of the Subject :	<input type="text"/>
<input type="text" value="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"/>	<input type="text"/>
Section No. (1, 2,.....) : <input type="text" value="NIL"/>	<input type="text"/>
	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 Answer the following questions in brief : (any 5) 10

- (1) Define Bandwidth, Transmission rate.
- (2) List the protocols used in network and transport layer.
- (3) Explain NTFS feature of Windows NT operating System.
- (4) Define block cipher.
- (5) Give advantages and disadvantages of mesh topology.
- (6) Define network protocol.

2 Answer the following questions : (any 4) 20

- (1) Explain bus type topology and ring type topology networks. Compare their performance.
- (2) Explain Fibre Optics cable in detail.
- (3) Compare the feature of Client Operating system and Server operating system.
- (4) Explain the importance of Digital Certificates and Digital Signatures.
- (5) Write a note on UDP.

3 Answer the following questions in detail : (any 3) 24

- (1) Explain the function, protocols and network components of each layer of OSI reference model.
- (2) Write a note on co-axial cable.
- (3) Explain Cryptography. Explain Public Key cryptography in detail with an example.
- (4) Write a note on Satellite Communication.

4 Write a note on any two : 16

- (1) Write a note on Unguided Transmission media used in computer networks
- (2) Write a note on Client Server Model and Peer-to-Peer Model
- (3) Firewall.