



EO-3774

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

October / November - 2016

Network Technologies - 503

(New Course)

Time : Hours]

[Total Marks : 70

Instructions :

(1)

नीचे दशांशों के विवरणों पर आवश्यक चिह्न दें। 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. V) (CBCS)"/>	<input type="text"/>
Name of the Subject :	<input type="text"/>
<input type="text" value="NETWORK TECHNOLOGIES - 503 (NEW COURSE)"/>	<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"/>	Section No. (1, 2.....) : <input type="text" value="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) 10

- (1) What is Network Topology ? Give the list of Network Topology.
- (2) One of the advantages of Computer Network is high reliability. Explain it.
- (3) How Switch differs from Hub ?
- (4) What is the relation between Data rate and Bandwidth ?
- (5) Twisted pair cables are twisted in a helical form, what purpose it serves. Explain with the aid of diagram.
- (6) What is the purpose of Public and Private Key ?

(b) Compare Twisted Pair, Coaxial Cable and Fiber Optic Cable based on the following factors : 6

- (a) Cost
- (b) Installation
- (c) Bandwidth Capacity
- (d) Attenuation.

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[Contd...

- 2** Do as directed : (any **three**) **15**
- (1) What is Peer to Peer Network ? Explain and draw the diagram.
 - (2) Explain the method of communication using Satellites.
 - (3) What are the features of Network Software ?
 - (4) Describe UDP and TCP.
- 3** Attempt any **three** : **24**
- (1) What is Firewall ? What are the functions of firewall ? Explain Packet Filter and Proxy Firewall in detail.
 - (2) Explain Star and Bus topology with its features and compare their advantages and disadvantages.
 - (3) Explain the following layers of OSI model in detail : Physical and Data Link Layer.
 - (4) Differentiate between IP Address and MAC Address. Also explain IP configuration.
- 4** Write short notes on the following : (any **three**) **15**
- (1) Types of Networks (client-server, hybrid networks)
 - (2) Fiber Optic Communication
 - (3) Server Operating System
 - (4) Public Key Infrastructure.
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