



**HD-3576**

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

**March / April - 2018**

**Network Technologies - 503**

**(New Course)**

Time : Hours]

[Total Marks : 70

**Instructions :**

(1)

नीचे दशावेक निम्नानुवाजी विगतो उत्तरवती पर अवश्य कर्तवी. Fillup strictly the details of signs on your answer book.	Seat No.:
Name of the Examination :	
<b>B. C. A. (SEM. 5) (CBCS)</b>	
Name of the Subject :	
<b>NETWORK TECHNOLOGIES - 503</b>	
Subject Code No. : <b>3 5 7 6</b> Section No. (1, 2,.....) : <b>NIL</b>	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 Attempt Following : 10**

- (1) Explain the use of Private Key.
- (2) Differentiate between Active Hub and Passive Hub.
- (3) Differentiate between star topology and bus topology.
- (4) Give uses of Hub and Gateway.
- (5) What do you mean by broadcast and multicast?

**2 Answer the following questions : (Any 4) 20**

- (1) Explain unguided media. (Radio waves and Microwaves).
- (2) Explain switch, also compare it with repeater.
- (3) What is Header? Explain each fields of UDP Header.
- (4) Explain peer to peer networks. Explain the advantages and disadvantages of it.
- (5) Explain tree (star-bus) topology in detail. Also give advantages and disadvantages.

**HD-3576 ]**

**1**

**[ Contd.....**

**3** Answer the following questions in detail : (Any 3) **24**

- (1) Explain Data Link Layer with its functions, protocols and network devices of OSI model.
- (2) Explain Wired Transmission Media. Explain Twisted Pair Cable with its diagram, functions, applications, advantages and disadvantages.
- (3) Explain Wired Media. Explain Optical Fiber Cable with its diagram, functions, applications, advantages and disadvantages.
- (4) Explain Network Layer with its functions, protocols and network devices of OSI model.

**4** Short Notes : (Any 2) **16**

- (1) Explain in detail client server networks and hybrid networks.
- (2) Explain Frewalls, with its applications, types, working, advantages and disadvantages.
- (3) Explain in detail: digital certificate.