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Third Year Computer Networks Question Paper

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SECTION 1: MULTIPLE CHOICE QUESTION (6 Questions, 1 Marks each)

Bloom's Taxonomy Level: 1

Topic: Application Layer

Subtopic: FTP

Q1: In FTP, what is the purpose of the PORT command?

- a) To establish a data connection.
- b) To specify the username.
- c) To change the working directory.
- d) To initiate the control connection. (1 Marks)

Q2: Which of the following protocols is used for transferring files over a network?

- a) HTTP
- b) SMTP
- c) FTP
- d) DNS (1 Marks)

Q3: The FTP control connection uses which port by default?

- a) 21
- b) 20
- c) 80
- d) 443 (1 Marks)

Q4: What is the primary function of the FTP data connection?

- a) To authenticate the user.
- b) To transfer files.
- c) To manage the file system.
- d) To establish the control connection. (1 Marks)

Q5: In FTP, what does the `ls` command do?

- a) Lists the files in the remote directory.

- b) Deletes a file.
- c) Creates a new directory.
- d) Changes the working directory. (1 Marks)

Subtopic: BitTorrent Protocol

Q6: In the BitTorrent protocol, what is the role of a tracker?**

- (a) To seed files to clients
- (b) To directly transfer pieces of files between peers
- (c) To provide a list of peers currently sharing a specific torrent
- (d) To encrypt the downloaded files

2. Which of the following BEST describes a "peer" in the BitTorrent network?

- (a) A server that hosts the entire torrent file
- (b) A client that only downloads files
- (c) A client that can both download and upload file pieces
- (d) A client that only uploads files

3. What is a "torrent file" in the context of the BitTorrent protocol?

- (a) A compressed version of the file being shared
- (b) A metadata file containing information about the file and its peers
- (c) An encrypted version of the file being shared
- (d) A list of all the users who have downloaded the file

4. In BitTorrent, what is the primary mechanism used for efficient file distribution?

- (a) Client-server architecture
- (b) Peer-to-peer file sharing
- (c) Centralized file storage
- (d) Broadcast transmission

5. What is a "choke" in the BitTorrent protocol?

- (a) A process that limits the upload speed to a single peer.
- (b) A type of encryption used to protect downloaded files.
- (c) A method of verifying file integrity.
- (d) A process that prevents a peer from downloading. (1 Marks)