**Third Year Computer Networks Question Paper**

**SECTION 1: SHORT ANSWER QUESTION (10 Questions, 1 Marks each)**

*Bloom's Taxonomy Level: 1*

**Topic: Application Layer**

*Subtopic: FTP*

**Q1:** Describe the two main ports FTP uses and their respective functions in the file transfer process. (1 Marks)

**Q2:** Name two distinct ports commonly used by FTP. (1 Marks)

**Q3:** What is the primary function of the FTP control connection? (1 Marks)

**Q4:** Briefly describe the difference between FTP's PORT and PASV modes. (1 Marks)

**Q5:** True or False: FTP inherently provides security for data transmission. (1 Marks)

**Topic: Introduction to Computer Networks and Internet**

*Subtopic: Brief History of Computer Networks*

**Q6:** Name one of the earliest wide-area networks (WANs) that predated the modern internet. (1 Marks)

**Q7:** What significant technological advancement in the 1960s was crucial to the development of the ARPANET? (1 Marks)

**Q8:** Briefly describe the role of packet switching in the evolution of computer networks. (1 Marks)

*Subtopic: Concept of Network Protocols*

**Q9:** What is the primary function of a network protocol? (1 Marks)

**Q10:** Name one example of a widely used network protocol and briefly state its purpose. (1 Marks)

**SECTION 2: FILL IN THE BLANKS (5 Questions, 2 Marks each)**

*Bloom's Taxonomy Level: 2*

**Topic: Application Layer**

*Subtopic: FTP*

**Q11:** In FTP, the \_\_\_\_\_\_\_ command is used to change the current working directory on the server, while the \_\_\_\_\_\_\_ command retrieves a file from the server to the client. (2 marks) (2 Marks)

**Q12:** FTP uses two ports: port \_\_\_\_\_\_\_ for command communication and port \_\_\_\_\_\_\_ for data transfer. (2 marks) (2 Marks)

**Q13:** The two main modes of data transfer in FTP are \_\_\_\_\_\_\_ mode, which uses a separate control connection for data, and \_\_\_\_\_\_\_ mode, which uses the same control connection for both commands and data. (2 marks) (2 Marks)

**Topic: Introduction to Computer Networks and Internet**

*Subtopic: Brief History of Computer Networks*

**Q14:** Fill in the blanks to complete the sentence regarding the history of computer networks: The first operational computer network, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, was developed in the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and primarily connected research facilities. (2 marks) (2 Marks)

*Subtopic: Concept of Network Protocols*

**Q15:** Fill in the blanks: Network protocols define the rules and standards that govern \_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_ between network devices. (2 Marks)