==

Third Year Computer Networks Question Paper

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SECTION 1: SUBJECTIVE (5 Questions, 2 Marks each)

Bloom's Taxonomy Level: 2

Topic: Application Layer

Subtopic: Basics of Socket Programming

Q1: wmdme (2 Marks)

Q2: **Describe the role of the `bind()` system call in socket programming. What happens if you attempt to `bind()` to an already-occupied port?** (2 marks) (2 Marks)

Q3: **What is the purpose of the `listen()` system call in server-side socket programming? How does it relate to the concept of a backlog queue?** (2 marks) (2 Marks)

Q4: **Briefly explain the difference between a connection-oriented (TCP) and a connectionless (UDP) socket. In what situations would you choose one over the other?** (2 marks) (2 Marks)

Q5: **Explain the purpose of the `accept()` system call in a TCP server. What are the parameters it takes and what values does it return?** (2 marks) (2 Marks)