21 Lecture - CS506

Important Mcqs

Sure, here are 10 multiple-choice questions (MCQs) related to Socket Programming along with their solutions and multiple options:

Question 1: What is a socket in the context of networking and programming?
A) A type of cable used to connect computers.
B) A software component for sending and receiving data over a network.
C) A type of protocol used for secure data transfer.
D) A hardware device used to route network traffic.
Solution: B
Question 2: Which protocol is commonly used for socket programming on the internet?
A) HTTP
B) FTP
C) SMTP
D) TCP/IP
Solution: D
Question 3: Which function is used to create a socket in most socket programming APIs?
A) `open_socket()`
B) `create_socket()`
C) `socket()`
D) `new_socket()`

B) It's a code that represents the physical location of a server.

Solution: C

C) It's an integer that identifies a specific process on a host.
D) It's a measure of the bandwidth of a network connection.
Solution: C
Question 8: Which socket API function is used to establish a connection between a client and a server?
A) connect()
B) send()
C) bind()
D) listen()
Solution: A
Question 9: What is the purpose of the `bind()` function in socket programming?
A) To associate a socket with a local IP address and port number.
B) To establish a connection between client and server.
C) To send data over the network.
D) To close a socket gracefully.
Solution: A
Question 10: Which socket type is used for connectionless communication in UDP?
A) SOCK_STREAM
B) SOCK_DGRAM
C) SOCK_RAW
D) SOCK_SEQPACKET
Solution: B