Graded Assessment - Socket API & Digital Transmissions

- 1. In BSD socket API, which call is usually used for transmitting data in the connectionless mode?
- accept()
- connect()
- sendto()
- None of the above
- 2. Which of following statement about TCP/UDP sockets is wrong?
- · TCP socket is stream oriented
- · UDP socket is block oriented
- TCP is faster than UDP
- All of the above
- 3. Which of following are commonly used as digital communication medium?
- Optical fiber
- All of the above
- · Coaxial cable
- Twisted pair
- 4. Consider a network link that has distance of 100 meters, and signal traverses at the speed of light in cable 2.5 x 10⁸ meters per second. The link has transmission bandwidth of 100 megabits/second (100 x 10⁶ bits per second). The packet size is 400 bits. What is the signal propagation delay?
- 4 x 10^-7 seconds

- 4 x 10^-9 seconds
- 4 x 10^-6 seconds
- None of the above

5. Consider a network link that has distance of 100 meters, and signal traverses at the speed of light in cable 2.5 x 10⁸ meters per second. The link has transmission bandwidth of 100 megabits/second (100 x 10⁶ bits per second). The packet size is 400 bits. What is the packet transmission delay?

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6. An API allows application programs to access certain resources through a predefined interface?

- True
- False

7. In transport protocol, which of the following statements is true for User Datagram Protocol

- It enables best-effort connectionless transfer of individual block of information
- It enables connection-oriented reliable transfer of individual block of information
- It enables best-effort connectionless reliable transfer of a stream of bytes
- None of the above
- 8. Which of the following sentences are true for connectionless stream mode of service
- No setup overhead and delay

- Destination address with each block
- Send/receive to/from multiple peer processes
- Multiple write/read between peer processes
- 9. In transmission delay, in order to reduce the number of bits in a message we use data compression
- True
- False
- 10. Which of the following is true of data compression algorithms
- Represent the information using fewer bits
- Recover information approximately
- Modify data headers
- · Recover original information exactly