

## **1: What is the primary function of data communications as defined in the text?**

- a) a) To establish physical connections between computing devices.
- b) b) To enable the transmission of digital data between computers.
- c) c) To divide networking concepts into multiple layers.
- d) d) To engineer firmware and hardware for network devices.

## **2: According to the text, what constitutes a computer or data network?**

- a) a) A collection of software and firmware used in networking.
- b) b) A telecommunications network facilitating data exchange between computers.
- c) c) The physical cables connecting networked computing devices.
- d) d) A series of independent layers each performing a specific networking task.

## **3: Which of the following methods are used to establish a physical connection between networked computing devices, according to the text?**

- a) a) Software and firmware.
- b) b) Chip level engineering.
- c) c) Cable media or wireless media.
- d) d) Electric pulses only.

## **4: Which of the following is identified as the best-known computer network in the provided text?**

- a) a) A localized network.
- b) b) A data communications network.
- c) c) The Internet.
- d) d) A telecommunications network.

## **5: According to the text, why is the networking concept divided into multiple layers?**

- a) a) To increase the complexity of network engineering.
- b) b) To create dependence between different networking tasks.
- c) c) To ease network engineering by assigning specific tasks to each layer.
- d) d) To minimize the sharing of data between networking components.

## **6: How do the layers in the networking model interact with each other, according to the text?**

- a) a) They operate completely independently without any communication.
- b) b) They share data and depend on each other for input and output.
- c) c) They are involved in separate networking tasks but are unrelated.
- d) d) They directly control the electric pulses within the network.