# 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.