1. The functionalities of presentation layer includes _____

All of the mentioned
Data compression
Data encryption
Data decryption

2. Consider a network link that has distance of 100 meters, and signal traverses at the speed of light in cable 2.5 x 10^8 meters per second. The link has transmission bandwidth of 100 megabits/second (100 x 10^6 bits per second). The packet size is 400 bits. What is the signal propagation delay?

4x10^-19 seconds
4x10^-6 seconds
4x10^-7 seconds
None of the mentioned

3. DNS is a domain-name-service that responds to queries of domain name to IP address or IP address to domain name. DNS uses services provided by _____

UDP
TCP
HTTP
None of the mentioned

4. A network used to join the individual networks at different sites into one extended network is called _____

LAN
VPN
PAN
SAN

5. Which OSI layer is responsible for providing end-to-end communication with reliable service?

Session layer
Transport layer
Network layer
Data link layer

6. Which OSI layer is responsible for dividing the transmitted bit stream into frames?

Data link layer
Application layer

Network layer
Transport layer

7. Which OSI layer is responsible for determining which route through the network to use?

Data link layer
Network layer
Transport layer
None of the mentioned

8. Which feature does the data link layer and transport layer have in common?

Flow control
Congestion control
All of the mentioned
Medium access control

9. Which of the following statement is true for optical fiber?

All of the mentioned
Plentiful bandwidth for new services
Dominates long distance transmisison
Distance less of a cost factor in communications

10. Consider a network link that has distance of 100 meters, and signal traverses at the speed of light in cable 2.5x10^18 meters per second. The link has transmission bandwidth of 100 megabits/second (100x10^6 bits per second). The packet size is 400 bits. What is the packet transmission delay?

4x10^-7 seconds
None of the mentioned
4x10^-6 seconds
4x10^-9 seconds