1. D
2. A
3. D
4. D
5. C
6. B
7. C
8. A
9. C
10. B
11. B
12. A
13. B
14. B
15. D
16. Cookies are programs which run in the background of the web-client.
17. Data collection is the role of the Sensor/Actuator layer in the IoT architecture.
18. Shortest path, distance vector and link state are routing algorithms that can be used for network layer design.
19. Data transmission is the role of the Gateway in IoT architecture.
20. The OSI model was developed due to desired standards to allow systems to communicate
21. Remote login, file transfer and access and mail service are application layer services.
22. The physical layer changes bits into electromagnetic signals.
23. A subset of a network that includes all the routers but contains no loops is called spanning tree.
24. The term best effort delivery mean that IP provides no error checking or tracking. IP assumes the unreliability of the underlying layers and does its best to get a transmission through toits destination, but with no guarantees.
25. The switch operates at the data link layer and can divide broadcast domains using VLANs.
26. HTTP does not maintain any connection information on previous transactions.
27. Two main types of NAT are dynamic and static.
28. Data integrity refers to ensuring data is accurate and unaltered.
29. UPD uses demultiplexing to handle incoming user datagrams that go to different processes on the same host.
30. The trunk port in VLAN configuration is to carry traffic for multiple VLANs.
    1. An internet address of the form 118.109.40.0/15, the /15 refers to the network part of the host address being the leftmost 15 bits.
    2. For up to 30 hosts, you need at least 32 IP addresses per subnet (2 IP addresses are reserved). Number of IP addresses in a subnet is given by 2(32-no. subnet mask bits). 32 = 25 = 2(32-27). CDIR Notation = /27. Subnet Mask = 255.255.255.224.