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Marks 50.00/50.00

Grade **100.00** out of 100.00

Question 1

Correct

Mark 1.00 out of 1.00

Ransomware attacks have arguably become one of the most pressing and costly types of attacks in the cloud.

- a. True ✓
- b. False

Question 2

Correct

Mark 1.00 out of 1.00

Cybersecurity as a service (CaaS or CSaaS) is an emerging security approach that provides managed security services, intrusion detection and prevention, and firewalls by a third-party vendor.

- a. True ✓
- b. False

Question 3

Correct

Mark 1.00 out of 1.00

Similar to the way that speaking the same language simplifies communication between two people, network protocols make it possible for devices to interact with each other because of predetermined rules built into devices' software and hardware.

- a. True ✓
- b. False

Question 4

Correct

Mark 1.00 out of 1.00

Which of the following is the primary use of firewalls?

- a. Help contents of websites get downloaded very fast.
- b. Prevent viruses on a computer.
- c. Prevent theft of a physical server.
- d. Prevent unauthorized access into a network. ✓

Question 5

Correct

Mark 1.00 out of 1.00

Internet of Everything (IoE) embraces the concept of complete connectivity, intelligence, & cognition.

- a. True ✓
- b. False

Question 6

Correct

Mark 1.00 out of 1.00

Future improvements in video quality, processing power, mobile bandwidth, and AR/VR hardware is expected to bring about a decline in the capabilities and usage of Virtual Reality (VR) and Augmented Reality (AR).

- a. True
- b. False ✓

Question 7

Correct

Mark 1.00 out of 1.00

Which of the following is not a QoS service model?

- a. Best-Effort
- b. Differentiated Service (DiffServ)
- c. Good-Effort ✓
- d. Integrated Service (IntServ)

Question 8

Correct

Mark 1.00 out of 1.00

Which of the following QoS mechanisms is not part of the DiffServ model?

- a. Traffic classification and marking
- b. Traffic congestion and jitter ✓
- c. Traffic policing, traffic shaping, and interface-based rate limiting
- d. Congestion management and congestion avoidance

Question 9

Correct

Mark 1.00 out of 1.00

5G standards are generally aimed at ensuring low battery consumption on devices.

- a. True ✓
- b. False

Question 10

Correct

Mark 1.00 out of 1.00

VPNs are fundamentally grouped as remote-access VPNs and site-to-site VPNs.

- a. True ✓
- b. False

Question 11

Correct

Mark 1.00 out of 1.00

_____ always maintains the updated information of routes at every node about the source and destination of a packet.

- a. Proactive routing protocols ✓
- b. Reactive routing protocols
- c. Power-aware routing protocol
- d. Hierarchical routing protocol

Question 12

Correct

Mark 1.00 out of 1.00

The following are the advantages of Zigbee except:

- a. Zigbee mesh networks can configure themselves automatically
- b. It is an interoperable standard
- c. It can repair itself dynamically if nodes are disabled or removed
- d. It is better than Bluetooth for all applications ✓

Question 13

Correct

Mark 1.00 out of 1.00

Bluetooth Low Energy is designed to support high-bandwidth connections over long distances.

- a. True
- b. False ✓

Question 14

Correct

Mark 1.00 out of 1.00

As compared to managing WAN networks with routing hardware, the use of Software-Defined Wide Area Networks (SD-WANs) will enable WAN connections to become more efficient, flexible, and dynamic.

- a. True ✓
- b. False

Question 15

Correct

Mark 1.00 out of 1.00

A virtual private network (VPN) creates a private network within a public network such as the internet.

- a. True ✓
- b. False

Question 16

Correct

Mark 1.00 out of 1.00

The three major steps or stages in traffic engineering are measure, model and control.

- a. True ✓
- b. False

Question 17

Correct

Mark 1.00 out of 1.00

The following are potential points an intruder could use to access a Wired LAN network except:

- a. Wall Socket
- b. Floor box
- c. Ethernet switch
- d. Network mast ✓

Question 18

Correct

Mark 1.00 out of 1.00

Network protocols are typically created according to the industry standards by various networking or information technology organizations such as IEEE, ISO, IETF, etc.

- a. True ✓
- b. False

Question 19

Correct

Mark 1.00 out of 1.00

In Virtual Reality (VR) a virtual environment is designed to coexist with the real environment.

- a. True
- b. False ✓

Question 20

Correct

Mark 1.00 out of 1.00

The following are basic ways to protect a Wi-Fi network except:

- a. Always change default passwords for all network devices
- b. Change passwords for only core network devices ✓
- c. Change the passwords on network devices often
- d. Use more complex passwords for network devices

Question 21

Correct

Mark 1.00 out of 1.00

ICMP packets are generally grouped as ICMP echo request messages and ICMP echo reply messages.

- a. True ✓
- b. False

Question 22

Correct

Mark 1.00 out of 1.00

Bluetooth Mesh is a relatively new protocol that is still undergoing revisions and enhancements.

- a. True ✓
- b. False

Question 23

Correct

Mark 1.00 out of 1.00

The following are new computing concepts introduced into mobile networks by 5G except:

- a. Wireless mesh networks and dynamic Ad hoc networking
- b. Smart antennas
- c. Wireless telephony ✓
- d. Pervasive networks

Question 24

Correct

Mark 1.00 out of 1.00

The following are common yet effective security strategies in WAN networks except:

- a. The use of Virtual Private Networks (VPNs)
- b. Deployment of Software-Defined Wide Area Networks (SD-WANs)
- c. The use of Spanning Tree Protocol to avoid man-in-the-middle attack ✓
- d. Ensure that all software and patches are up-to-date

Question 25

Correct

Mark 1.00 out of 1.00

Cloud computing can be broadly divided into one of the following except:

- a. Private cloud
- b. Public cloud
- c. Hybrid cloud
- d. Dynamic cloud ✓

Question 26

Correct

Mark 1.00 out of 1.00

Cryptojacking can be described as the unauthorized use of a device's computing power to mine or generate cryptocurrency.

- a. True ✓
- b. False

Question 27

Correct

Mark 1.00 out of 1.00

The following are specific examples of data traffic attacks in Mobile Ad-hoc Networks except:

- a. Black Hole Attack
- b. control traffic attacks ✓
- c. Cooperative Black Hole Attack
- d. Grey-Hole Attack

Question 28

Correct

Mark 1.00 out of 1.00

A network protocol is a set of established rules that determine how data is transmitted between different devices in the same network.

- a. True ✓
- b. False

Question 29

Correct

Mark 1.00 out of 1.00

Security issues in the cloud computing area are a major concern and could be a militating factor against the development of cloud computing if not appropriately tackled.

- a. True ✓
- b. False

Question 30

Correct

Mark 1.00 out of 1.00

IPsec is often paired with L2TP, because L2TP provides tunneling for VPNs, while IPsec provides network layer or IP address security, and can encrypt information about L2TP.

- a. True ✓
- b. False

Question 31

Correct

Mark 1.00 out of 1.00

The File Transfer Protocol (FTP) is also known as a communication protocol.

- a. True ✓
- b. False

Question 32

Correct

Mark 1.00 out of 1.00

The following are examples of routing algorithms of ad hoc mobile networks except:

- a. Proactive routing protocol
- b. Reactive routing protocol
- c. RIP routing protocol ✓
- d. Power-aware routing protocol

Question 33

Correct

Mark 1.00 out of 1.00

VLAN segmentation divides local area networks into logical segments to control broadcast domains.

- a. True ✓
- b. False

Question 34

Correct

Mark 1.00 out of 1.00

Which of the following statement is incorrect?

- a. 6G is projected to offer a faster, more secure, and cost-effective broadband network.
- b. 6G could be seen as an integration of 5G wireless mobile systems and satellite networks.
- c. The handling of hand-off and roaming between satellites systems of varying standards still remains an issue in 6G.
- d. 6G is entirely based on the Long Term Evolution (LTE) standard. ✓

Question 35

Correct

Mark 1.00 out of 1.00

Zigbee is widely used in various application areas such as in home automation and smart city street lighting.

- a. True ✓
- b. False

Question 36

Correct

Mark 1.00 out of 1.00

_____ is a type of cloud computing that provides cloud infrastructure and services to specific organizations with similar interests.

- a. Private cloud
- b. Community cloud ✓
- c. Hybrid cloud
- d. Public cloud

Question 37

Correct

Mark 1.00 out of 1.00

Virtual Reality (VR) can be described as a completely immersive experience that replaces a real-life environment with a simulated one.

- a. True ✓
- b. False

Question 38

Correct

Mark 1.00 out of 1.00

Ping commands could be used for network troubleshooting including monitoring, device availability, network latency, and packet loss.

- a. True ✓
- b. False

Question 39

Correct

Mark 1.00 out of 1.00

While WiMAX links can travel up to 30 miles, sharing bandwidth among multiple connected devices in WiMAX implementations is much more cumbersome.

- a. True ✓
- b. False

Question 40

Correct

Mark 1.00 out of 1.00

Which of the following is NOT true about a 5G wireless network?

- a. Its capacity is much higher than 4G wireless networks.
- b. It has higher throughput but lower bandwidth. ✓
- c. It allows for a higher density of mobile users.
- d. It is designed to be very reliable.

Question 41

Correct

Mark 1.00 out of 1.00

Which one of the following is a simple description of Interdomain Traffic Engineering?

- a. Changing the ACL rules on a firewall.
- b. Reconfiguring the BGP policies/configurations running on individual edge routers in the network. ✓
- c. Good VLAN configurations on a switch.
- d. Securing a network with up-to-date antivirus and VPN connections.

Question 42

Correct

Mark 1.00 out of 1.00

Identify the service model that is not a cloud computing service model.:

- a. Platform as a Service
- b. Infrastructure as a Service
- c. Software as a Service
- d. Password as a Service ✓

Question 43

Correct

Mark 1.00 out of 1.00

Identify the demerit of the 5G network.

- a. Use of IPv4 ✓
- b. low battery consumption
- c. availability of multiple data transfer path
- d. high security

Question 44

Correct

Mark 1.00 out of 1.00

Unlike network shaping that may enqueue and delay the forwarding of the network traffic, traffic policing mechanisms immediately drops the exceeding traffic.

- a. True ✓
- b. False

Question 45

Correct

Mark 1.00 out of 1.00

In Weighted Fair Queuing, each queue is assigned a weight based on its priority, with higher priorities having higher weights.

- a. True ✓
- b. False

Question 46

Correct

Mark 1.00 out of 1.00

Virtual Reality (VR) and Augmented Reality (AR) are both designed to bring a simulated environment to the user.

- a. True ✓
- b. False

Question 47

Correct

Mark 1.00 out of 1.00

6G wireless mobile networks are expected to integrate with satellites to get true global coverage.

- a. True ✓
- b. False

Question 48

Correct

Mark 1.00 out of 1.00

Networks that transmit traffic for resource-intensive systems such as Internet protocol television (IPTV), online gaming, streaming media, video-conferencing, video on demand (VOD), and voice over IP(VoIP) frequently use QoS.

- a. True ✓
- b. False

Question 49

Correct

Mark 1.00 out of 1.00

Mobile Device Security is a major concern for future networks, especially with the rise of IoT and the continued spread of cloud computing.

- a. True ✓
 b. False

Question 50

Correct

Mark 1.00 out of 1.00

6G uses 2.8 GHz frequency.

- a. True
 b. False ✓