

Cs6551 computer networks 2 marks with answers

CS6551: Computer Networks - 2 Marks Questions with Answers

CS6551, "Computer Networks," is a foundational course in the field of computer science. It covers the essential concepts, principles, and technologies that enable communication and data sharing across interconnected devices. This will delve into key topics covered in CS6551, focusing on 2-mark questions that are commonly encountered in exams and assignments.

1. to Computer Networks: This section introduces the basic concepts of computer networks and their significance in today's digital world.

Key Concepts:

- Definition of a Computer Network: A collection of interconnected devices (computers, servers, printers, etc.) that can communicate and exchange data.
- *Types of Networks:*
- *LAN (Local Area Network):* Connects

devices in a small geographical area (e.g., home, office). • **WAN (Wide Area Network):** Connects devices over a larger geographical area (e.g., cities, countries). • **MAN (Metropolitan Area Network):** Connects devices within a city or metropolitan area. • **PAN (Personal Area Network):** Connects devices within a small personal area (e.g., a person's desk). • **Network Topologies:** The physical arrangement of devices in a network. • **Bus:** All devices connected to a single cable. • **Star:** All devices connected to a central hub. • **Ring:** Devices connected in a closed loop. • **Mesh:** Devices connected to multiple other devices. • **Advantages of Networks:** • **Resource Sharing:** Access to shared resources like printers, files, and applications. • **Enhanced Communication:** Facilitates efficient communication and collaboration. • **Increased Productivity:** Streamlines workflows and improves overall efficiency. • **Cost Savings:** Shared resources reduce individual costs. 2-Mark Questions: • *What is a computer network? Briefly explain its significance.* • **Answer:** A computer network is a collection of interconnected devices that can communicate and exchange data. Networks are crucial in modern society, facilitating communication, resource sharing, and access to information. • *Differentiate between LAN and WAN.* • **Answer:** LAN

connects devices within a small geographical area, while WAN connects devices across a larger geographical area. • What are the different types of network topologies? Briefly describe any one. •

Answer: Bus, Star, Ring, and Mesh. In a bus topology, all devices are connected to a single cable, with data transmitted in a single direction. **2. Network Layers &**

Protocols: This section explores the layered

architecture of networks and the protocols that govern communication within each layer. *Key Concepts:* • *OSI*

(Open Systems Interconnection) Model: A conceptual model that divides network functions into seven

layers. • **TCP/IP (Transmission Control**

Protocol/Internet Protocol) Model: A widely used model that divides network functions into four layers.

• **Network Protocols:** Sets of rules that govern communication between devices. • **Layered**

Architecture: Divides network functionality into distinct layers for efficient management and

modularity. **2-Mark Questions:** • *What is the significance of network layers in communication?* •

Answer: Layers divide network functions into distinct units, allowing for modular design, standardization, and efficient communication. • *Briefly explain the functions of the Transport Layer in the OSI model.* •

Answer: The Transport Layer ensures reliable and

error-free data transmission between applications. It handles segmentation, flow control, and error checking. • **What is the difference between TCP and UDP?** • **Answer:** TCP provides reliable,

connection-oriented communication with error checking and flow control, while UDP offers connectionless communication and prioritizes speed over reliability. **3. Physical Layer & Data Transmission:**

This section focuses on the physical aspects of networking, including physical media, data encoding, and transmission techniques. **Key Concepts:** •

Physical Media: The physical cables or wireless signals used to transmit data. • **Twisted Pair Cable:** Consists of two insulated wires twisted together to reduce interference. • **Coaxial Cable:** Consists of a central conductor surrounded by insulation and a braided shield. • **Fiber Optic Cable:** Transmits data as light pulses through thin strands of glass. • **Wireless Media:**

Uses electromagnetic waves to transmit data. • **Data Encoding:** Converting data into signals that can be transmitted over physical media. • **Analog Modulation:** Transforms digital data into analog signals. • **Digital Modulation:** Transmits digital data as digital signals. • **Transmission Techniques:** •

Baseband Transmission: Transmits data directly on the cable. • **Broadband Transmission:** Transmits

data over a wider frequency range. **2-Mark Questions:**

• What are the different types of physical media used in networks? • *Answer:* Twisted pair cable, coaxial cable, fiber optic cable, and wireless media. • **Explain the difference between baseband and broadband transmission.** • *Answer:* Baseband transmits data

directly on the cable, while broadband transmits data over a wider frequency range. • What is the role of

data encoding in network communication? • *Answer:* Data encoding converts data into signals that can be transmitted over physical media, ensuring accurate and reliable transmission. **4. Data Link Layer & Error Control:** This section explores the mechanisms

used to manage data flow, detect and correct errors, and ensure reliable data transmission. Key Concepts:

• *MAC (Media Access Control) Address:* A unique identifier assigned to each network interface card (NIC). • *Error Detection & Correction:* Techniques to detect and correct errors in data transmission. • Parity Checking: Adds an extra bit to detect single-bit errors.

• **Checksum:** Calculates a value based on the data block and adds it to the message for error detection. •

Cyclic Redundancy Check (CRC): Uses a mathematical algorithm to detect and correct errors. •

Flow Control: Mechanism to prevent data overload and ensure efficient transmission. • **Error Control**

Mechanisms: Techniques to address errors introduced during data transmission. • *Automatic Repeat Request (ARQ):* Re-transmits data if errors are detected. *2-Mark Questions:* • **What is the**

significance of the MAC address in network communication? • Answer: The MAC address

uniquely identifies each network interface card, allowing devices to communicate directly. • Briefly explain any two error detection techniques. • **Answer:** Parity checking adds an extra bit to detect single-bit errors, while checksum calculates a value based on the data block to detect errors. • **What is the role of flow control in network communication?** •

Answer: Flow control prevents data overload and ensures efficient transmission by managing the rate at which data is sent. **5. Network Routing &**

Addressing: This section focuses on how data is routed through networks, how devices are identified, and how network traffic is managed. **Key Concepts:** •

IP (Internet Protocol) Address: A unique numerical address assigned to each device on the internet. •

Routing: The process of determining the path data takes to reach its destination. • Routers: Devices that forward data packets between networks. • **Routing**

Protocols: Algorithms that determine the optimal path for data packets. • RIP (Routing Information

Protocol): A distance-vector routing protocol. • **OSPF**

(Open Shortest Path First): A link-state routing

protocol. **2-Mark Questions:** • What is the difference

between IP address and MAC address? • **Answer:** IP

address is a logical address used for routing data

packets between networks, while MAC address is a

physical address that identifies a network interface

card. • **Explain the concept of routing in**

networks. • **Answer:** Routing involves determining

the optimal path for data packets to reach their

destination by utilizing routing protocols and routers. •

What is the role of a router in a network? • **Answer:**

Routers forward data packets between networks,

connecting different networks and enabling

communication between devices on different

networks. **6. Network Security & Threats:** This

section examines various security threats in networks

and how to mitigate them. **Key Concepts:** •

Network Security: Measures taken to protect a

network from unauthorized access, use, disclosure,

disruption, modification, or destruction. • **Cyber**

Threats: Malicious activities that target computer

systems and networks. • *Viruses:* Self-replicating

programs that can damage files and systems. •

Worms: Similar to viruses but can spread

autonomously. • **Trojan Horses:** Programs that

appear legitimate but contain malicious code. •

Denial-of-Service (DoS) Attacks: Overwhelm a system with traffic, making it inaccessible to legitimate users. • **Phishing:** Attempts to trick users into revealing sensitive information. • **Malware:** Any software designed to harm or disrupt computer systems. • *Network Security Measures:* • **Firewalls:** Prevent unauthorized access to a network. •

Intrusion Detection Systems (IDS): Monitor network traffic for suspicious activity. • Antivirus Software: Detects and removes viruses and other malware. • **Encryption:** Encrypts data to protect it from unauthorized access. • Authentication: Verifies the identity of users before granting access. **2-Mark**

Questions: • **What are some common cyber threats faced by computer networks?** • **Answer:** Viruses, worms, trojan horses, DoS attacks, phishing, and malware. • **Explain the role of firewalls in network security.** • **Answer:** Firewalls prevent unauthorized access to a network by filtering network traffic and blocking suspicious activity. • *Why is encryption important in network security?* • **Answer:** Encryption protects data from unauthorized access by converting it into unreadable code, ensuring confidentiality and integrity. **Key Takeaways:** • **Understanding computer networks is essential for success in**

the digital world. • **The layered architecture of networks simplifies network design and management.** • *Network protocols govern communication between devices, ensuring efficient and reliable data transfer.* • Physical media and data encoding techniques form the foundation of data transmission. • *Error control mechanisms are vital for ensuring accurate data delivery.* • **Routing and addressing are crucial for directing data packets to their destinations.** • **Network security measures are essential to protect against cyber threats and ensure network integrity.** FAQs: • Q1. What are the benefits of using a computer network? • **A1:** Computer networks offer numerous benefits, including resource sharing, enhanced communication, increased productivity, and cost savings. • Q2. What is the difference between a network protocol and a network topology? • **A2:** A network protocol defines rules for communication, while a network topology describes the physical arrangement of devices in a network. • **Q3. What is the role of the data link layer in network communication?** • **A3:** The data link layer manages data flow, detects and corrects errors, and provides access to the physical media. • *Q4. What are some common network security threats?* • **A4:** Common threats include viruses, worms, trojan

horses, DoS attacks, phishing, and malware. • Q5.

Why is it important to learn about computer networks?

• **A5:** Understanding computer networks is essential for working with computers, connecting devices, managing data, and securing digital information.

CS6551 Computer Networks: Mastering the 2-Mark Questions

Ah, Computer Networks! A cornerstone of modern computing, and for many engineering students, a subject that can feel both fascinating and a tad daunting. If you're navigating through your curriculum, chances are you've encountered CS6551 Computer Networks. And if you're like most, you're probably spending a good chunk of your study time wrestling with those crucial 2-mark questions. These seemingly small questions often pack a punch, testing your fundamental understanding of core concepts. Getting these right can significantly boost your overall score, so it's essential to be well-prepared.

In this comprehensive guide, we're diving deep into the world of CS6551 Computer Networks 2 marks with answers. We'll break down common topics, provide clear explanations, and arm you with the knowledge

to tackle these questions with confidence. Whether you're just starting out or in revision mode, this article is designed to be your go-to resource for mastering those quick-fire, concept-testing questions.

Why Are 2-Mark Questions So Important in CS6551?

You might wonder why so much emphasis is placed on these short answers. Well, in subjects like Computer Networks, the building blocks are crucial. 2-mark questions are designed to assess your grasp of:

1. **Key Definitions:** Can you define fundamental terms like protocols, network topology, IP address, etc., concisely and accurately?
2. **Core Concepts:** Do you understand the basic principles behind concepts like data encapsulation, multiplexing, or error detection?
3. **Basic Functionality:** Can you explain the primary role of different network devices or layers?
4. **Distinguishing Features:** Can you highlight the key differences between related concepts (e.g., TCP vs. UDP, LAN vs. WAN)?

Mastering these 2-mark questions isn't just about memorization; it's about internalizing the foundational knowledge that underpins more complex networking

principles. Think of them as the essential vocabulary you need to have a meaningful conversation about computer networks.

Common Topics Covered in CS6551 2-Mark Questions

Let's explore some of the most frequently tested areas in CS6551 for these short-answer questions. We'll provide clear explanations and sample answers to help you understand the expected level of detail.

Network Topologies

Understanding how devices are connected in a network is fundamental. 2-mark questions often ask about the definition or a key characteristic of different topologies.

What is a Bus Topology?

Answer: In a bus topology, all devices are connected to a single central cable, known as the backbone or bus. Data is transmitted along the bus, and all devices can see the transmitted data, but only the intended recipient accepts it.

What is a Star Topology?

Answer: In a star topology, all devices are connected to a central hub or switch. Each device has a dedicated connection to the central point, and all communication passes through it.

What is a Ring Topology?

Answer: In a ring topology, devices are connected in a closed loop. Data travels in one direction around the ring, with each device passing the data to the next until it reaches its destination.

What is a Mesh Topology?

Answer: In a mesh topology, every device is connected to every other device in the network. This provides high redundancy and fault tolerance but is complex and expensive to implement.

Networking Models (OSI and TCP/IP)

These models are the backbone of networking concepts. Expect questions on the purpose of these models and the function of individual layers.

What is the OSI Model?

Answer: The OSI (Open Systems Interconnection) model is a conceptual framework that standardizes the functions of a telecommunication or computing system in terms of abstraction layers. It divides network communication into seven layers, each with specific responsibilities.

What is the TCP/IP Model?

Answer: The TCP/IP (Transmission Control Protocol/Internet Protocol) model is a more practical, layered networking model that is the basis for the Internet. It typically consists of four or five layers.

What is the main function of the Transport Layer?

Answer: The Transport Layer provides reliable or unreliable data transfer between end systems. It handles segmentation, reassembly, flow control, and error control (e.g., TCP, UDP).

What is the main function of the Network Layer?

Answer: The Network Layer is responsible for logical addressing (IP addresses) and routing, ensuring that data packets are delivered from the source to the

destination across different networks.

What is the main function of the Data Link Layer?

Answer: The Data Link Layer handles the physical addressing (MAC addresses) and the transmission of data frames over a local network segment. It also provides error detection and correction.

Protocols

Protocols are the rules that govern communication. Understanding their purpose and examples is crucial.

What is a Protocol?

Answer: A protocol is a set of rules that govern the exchange of data between two or more entities. It defines the format, order, and meaning of messages exchanged.

What is the difference between TCP and UDP?

Answer: TCP (Transmission Control Protocol) is a connection-oriented, reliable protocol that ensures data delivery and ordering. UDP (User Datagram Protocol) is a connectionless, unreliable protocol that offers faster, less overhead transmission but no

guarantees.

What is HTTP?

Answer: HTTP (Hypertext Transfer Protocol) is an application protocol for distributed, collaborative, hypermedia information systems. It is the foundation of data communication for the World Wide Web.

What is IP?

Answer: IP (Internet Protocol) is the principal protocol for routing packets of data across the Internet. It provides logical addressing (IP addresses) for devices.

IP Addressing and Subnetting

This is a fundamental area for anyone working with networks. Basic definitions and calculations are common.

What is an IP Address?

Answer: An IP address is a unique numerical label assigned to each device participating in a computer network that uses the Internet Protocol for communication. It serves two main functions: host or network interface identification and location addressing.

What is a Subnet Mask?

Answer: A subnet mask is a 32-bit number that separates an IP address into an address of the host and an address of the network. It's used to determine which part of an IP address is the network ID and which is the host ID.

What is Classful IP Addressing?

Answer: Classful IP addressing is an older method of dividing IP addresses into classes (A, B, C, D, E) based on the first octet. Each class has a default subnet mask.

What is Subnetting?

Answer: Subnetting is the process of dividing a large IP network into smaller, more manageable sub-networks (subnets). This improves network performance, security, and administration.

Network Devices

Understanding the role of common hardware is essential.

What is a Router?

Answer: A router is a networking device that forwards data packets between computer networks. Routers perform the traffic-directing functions on the Internet and in larger private networks.

What is a Switch?

Answer: A switch is a networking device that connects multiple devices on a local area network (LAN). It operates at the Data Link Layer (Layer 2) and forwards data frames based on MAC addresses.

What is a Hub?

Answer: A hub is a basic networking device that connects multiple devices on a LAN. It operates at the Physical Layer (Layer 1) and broadcasts all incoming data to all connected devices, leading to inefficiencies.

What is a Modem?

Answer: A modem (modulator-demodulator) is a device that converts digital signals from a computer into analog signals for transmission over telephone lines and vice versa.

Data Transmission Concepts

These questions delve into the mechanics of how data moves across networks.

What is Data Encapsulation?

Answer: Data encapsulation is the process where data is passed down through the layers of the networking model. Each layer adds its own header and sometimes a trailer to the data received from the layer above it.

What is Data Decapsulation?

Answer: Data decapsulation is the reverse process of encapsulation, where data is passed up through the layers of the networking model. Each layer removes its corresponding header and trailer as the data reaches its destination.

What is Multiplexing?

Answer: Multiplexing is a technique used to combine multiple signals or data streams into a single communication channel, allowing for efficient use of bandwidth. Examples include FDM and TDM.

What is Demultiplexing?

Answer: Demultiplexing is the process of separating a combined signal or data stream back into its original constituent signals or streams at the receiving end.

Error Detection and Correction

Ensuring data integrity is a key networking concern.

What is Parity Checking?

Answer: Parity checking is a simple error detection method where an extra bit (parity bit) is added to a binary message to make the total number of 1s either even or odd, depending on the parity scheme used.

What is Checksum?

Answer: Checksum is an error detection technique where a fixed-size datum is computed from a block of digital data for the purpose of detecting errors that may have been introduced during its transmission or storage.

What is CRC (Cyclic Redundancy Check)?

Answer: CRC is a more robust error detection algorithm that uses polynomial division to generate a

checksum. It is effective at detecting common transmission errors like burst errors.

Tips for Answering CS6551 2-Mark Questions Effectively

It's not just about knowing the answers, but how you present them. Here are some tips to excel:

1. **Be Concise:** Stick to the core of the question. Avoid unnecessary jargon or lengthy explanations. Think about what the examiner is truly looking for in those two marks.
2. **Use Keywords:** Integrate relevant technical terms naturally into your answers. This demonstrates your understanding of the subject matter. For example, when defining a protocol, use terms like "rules," "communication," and "standard."
3. **Be Accurate:** Double-check your definitions and explanations. A small error can cost you a mark.
4. **Understand the Context:** Sometimes, the question might be phrased in a way that requires you to recall a specific aspect. Read carefully and ensure your answer addresses the prompt directly.
5. **Practice Regularly:** The more you practice answering these short questions, the more comfortable you'll become with the material and the

faster you'll be able to recall information during an exam.

6. **Draw Simple Diagrams (If Applicable):** For concepts like topologies, a quick, simple sketch can sometimes convey information more effectively than words, even if not explicitly asked for. However, for strict 2-mark questions, focus on the written answer unless diagrams are a standard part of the answer for that topic.

Leveraging LSI Keywords for Better Understanding

As you study, pay attention to related terms that often appear alongside core concepts. These are often referred to as Latent Semantic Indexing (LSI) keywords. For instance, when discussing protocols, you'll often see terms like:

1. Network protocols
2. Communication protocols
3. Internet protocols
4. Application layer protocols
5. Transport layer protocols
6. Network services
7. Data transmission
8. Networking standards

Understanding these related terms helps build a more holistic picture of each concept and prepares you for variations in how questions might be asked.

Conclusion: Build Your Foundation Strong

CS6551 Computer Networks is a subject that rewards a strong foundational understanding. Those 2-mark questions are your opportunity to prove that you have that grasp. By systematically covering the common topics, practicing concise and accurate answers, and understanding the underlying principles, you can confidently tackle these questions and build a solid base for your learning in computer networks.

Remember, the journey to mastering computer networks is a marathon, not a sprint. Focus on understanding the 'why' behind each concept, and those 2-mark answers will naturally fall into place. Good luck with your studies!

Understanding CS6551 Computer

Networks: Core Concepts and Essential Insights

The CS6551 course on Computer Networks provides a comprehensive foundation for mastering modern networking principles, particularly through its structured exploration of key topics that shape today's digital infrastructure. At its core, the course delivers a clear understanding of network architecture, communication protocols, and data transmission mechanisms, essential for anyone aiming to excel in fields like IT, systems engineering, and network administration. By delving into both theoretical frameworks and real-world applications, CS6551 equips learners with the knowledge needed to design, manage, and secure complex network environments.

Key Components of Network Design and Protocols

A central theme in CS6551 is the detailed examination of network design, emphasizing how data flows across diverse topologies—from local area networks (LANs) to wide area networks (WANs) and the emerging cloud-based infrastructures. Students explore the role of routing and switching technologies, learning how

protocols such as TCP/IP, UDP, and HTTP govern data transfer across interconnected systems. The course also highlights the importance of subnetting, IP addressing, and firewall configurations, which are critical for optimizing performance, ensuring reliability, and maintaining secure communication channels.

One of the most valuable aspects of CS6551 is its focus on both wired and wireless communication. Learners study the strengths and limitations of Ethernet, Wi-Fi standards, and cellular networks, gaining insight into how these technologies support everything from enterprise LANs to public internet access. Understanding these foundations enables professionals to make informed decisions when deploying scalable and resilient network solutions tailored to organizational needs.

Applications Across Industries and Everyday Life

The practical applications of networking concepts taught in CS6551 span a broad spectrum of industries, making the course highly relevant beyond academic settings. In healthcare, robust network systems support electronic medical records, telemedicine, and real-time patient monitoring, improving care delivery

and operational efficiency. Financial institutions rely on secure, high-speed networks for transaction processing, fraud detection, and compliance with stringent data protection regulations.

In education, networked learning environments enable remote classrooms, collaborative research, and access to global digital resources, transforming traditional teaching methods. Even in smart homes and cities, interconnected devices depend on stable network infrastructures to enable automation, energy management, and enhanced public services. The versatility of these applications underscores how CS6551's curriculum prepares students to contribute meaningfully across diverse technological ecosystems.

Benefits of Studying Computer Networks with CS6551

Pursuing the CS6551 course delivers substantial benefits, starting with a deepened technical expertise that translates directly into career advancement. Graduates emerge with a strong proficiency in network troubleshooting, configuration, and security—skills highly sought after in today's job market. The course fosters critical thinking by challenging learners to analyze network performance

issues, implement optimization strategies, and evaluate emerging technologies such as SDN and IPv6.

Moreover, CS6551 cultivates an understanding of network ethics and policy, preparing students to navigate complex issues around privacy, data ownership, and regulatory compliance. This holistic approach ensures that learners not only master technical competencies but also develop the judgment needed to lead responsible and secure network initiatives. The course's emphasis on real-world projects and case studies further bridges theory and practice, enabling students to apply knowledge confidently in professional contexts.

The Future of Networking and CS6551's Role in Preparation

As technology evolves rapidly, the field of computer networks continues to transform with innovations like 5G, edge computing, artificial intelligence-driven network management, and the growing adoption of software-defined networking (SDN). The CS6551 curriculum is designed to anticipate these shifts, equipping learners with adaptable skills that extend beyond current standards. By grounding students in

fundamental principles while exposing them to cutting-edge developments, the course ensures readiness for future challenges and opportunities.

Students emerge from CS6551 not just as technicians but as forward-thinking professionals capable of shaping the next generation of networked systems. Whether designing scalable enterprise networks, securing critical infrastructure, or pioneering new connectivity solutions, the knowledge gained provides a solid foundation for long-term success in an increasingly interconnected world. The course's enduring relevance lies in its balance of timeless networking fundamentals and forward-looking insights, making it an essential step for anyone committed to mastering computer networks.

CS6551 Computer Networks: Mastering 2-Mark Questions and Answers for Exam Success

The subject of Computer Networks (CS6551) is a cornerstone for aspiring computer science and engineering professionals. Its intricate concepts, from fundamental protocols to advanced architectures, are

often tested through a variety of question formats. Among these, the ubiquitous 2-mark questions play a crucial role, often serving as the initial gateway to demonstrating a solid grasp of core principles. For students preparing for examinations, a comprehensive understanding of CS6551 2-mark questions with their precise answers is not just beneficial, but essential for building confidence and securing good marks. This article delves into the common themes, provides detailed explanations for typical 2-mark questions, and offers strategic advice on how to approach them effectively, ensuring you are well-equipped to tackle any such query.

Understanding 2-mark questions is about pinpointing the essence of a concept. These questions are designed to test your ability to recall and concisely articulate definitions, fundamental concepts, or brief explanations of processes. They are the building blocks upon which more complex understanding is built. Often, these questions touch upon the foundational elements of networking, such as the OSI model, TCP/IP model, network devices, basic protocols, and common network terminologies. Mastering these short, sharp answers can significantly contribute to your overall score, as they are typically the first questions answered in an exam paper.

When preparing for CS6551, it's vital to go beyond rote memorization. While remembering definitions is important, a deeper understanding of **why** these concepts are important and **how** they function is what truly differentiates a good answer. This analytical approach will not only help you answer 2-mark questions accurately but also inform your responses to longer, more application-based questions.

The Importance of 2-Mark Questions in CS6551

In a subject as vast as Computer Networks, 2-mark questions serve several critical purposes for both examiners and students. For students, they offer an immediate opportunity to score points and build momentum. A well-answered 2-mark question signals to the examiner that the student has a foundational understanding of the subject matter. For examiners, these questions act as a quick diagnostic tool to gauge the student's grasp of fundamental concepts without requiring lengthy explanations.

The brevity required for a 2-mark answer forces students to be precise and focused. It encourages the identification of key terms and the ability to define them succinctly. This is a valuable skill that

transcends academic settings and is crucial in professional environments where clear and concise communication is paramount. Furthermore, these questions often cover a wide spectrum of topics, ensuring that students are tested on their breadth of knowledge across the entire syllabus.

Therefore, dedicating significant preparation time to understanding and practicing CS6551 2-mark questions is a strategic move for any student aiming for academic excellence. It's about building a strong foundation of knowledge that will support them throughout their studies and future career in the field of **networking technologies**.

Common Themes and Topics for CS6551 2-Mark Questions

The CS6551 syllabus is rich with fundamental networking concepts. The 2-mark questions are typically drawn from the following core areas:

1. Network Models: OSI and TCP/IP

The bedrock of computer networking lies in its layered models. Understanding the purpose, layers, and key functions of the OSI (Open Systems Interconnection)

and TCP/IP (Transmission Control Protocol/Internet Protocol) models is paramount. Expect questions on specific layers, their responsibilities, and the relationship between the two models.

Example 2-Mark Questions & Answers:

1. **Question:** What is the primary function of the Physical Layer in the OSI model?
2. **Answer:** The Physical Layer is responsible for the transmission and reception of raw bit streams over the physical medium. It defines electrical, mechanical, procedural, and functional specifications for the physical connection.
3. **Keywords:** OSI model, Physical Layer, bit stream, transmission, physical medium, electrical, mechanical.
4. **LSI Keywords:** Network hardware, data transmission, signal encoding.
5. **Question:** Name any two layers of the TCP/IP model.
6. **Answer:** Any two from: Application Layer, Transport Layer, Internet Layer, Network Interface Layer (or Link Layer/Data Link Layer).
7. **Keywords:** TCP/IP model, layers, Application, Transport, Internet, Network Interface.
8. **LSI Keywords:** Protocol stack, internetworking.

9. **Question:** What is the main difference between the OSI and TCP/IP models?
10. **Answer:** The OSI model is a conceptual framework with 7 layers, while the TCP/IP model is a practical implementation with 4 or 5 layers, merging some OSI layers.
11. **Keywords:** OSI vs TCP/IP, layers, conceptual, practical.
12. **LSI Keywords:** Network architecture, protocol comparison.

2. Network Devices and Media

Understanding the role of various network devices such as hubs, switches, routers, and bridges, as well as different transmission media (cables, wireless), is frequently tested.

Example 2-Mark Questions & Answers:

1. **Question:** What is the function of a router?
2. **Answer:** A router connects different networks and forwards data packets between them based on IP addresses, enabling internetworking.
3. **Keywords:** Router, network connection, data packets, IP address, internetworking.
4. **LSI Keywords:** Routing protocols, network topology, gateway.

5. **Question:** Differentiate between a hub and a switch.
6. **Answer:** A hub is a simple device that broadcasts incoming data to all connected ports, while a switch is intelligent and sends data only to the intended recipient port.
7. **Keywords:** Hub vs Switch, broadcast, intelligent, port, MAC address.
8. **LSI Keywords:** Network segmentation, collision domain.
9. **Question:** Name two types of twisted-pair cables used in networking.
10. **Answer:** Unshielded Twisted Pair (UTP) and Shielded Twisted Pair (STP).
11. **Keywords:** Twisted pair cable, UTP, STP, Ethernet cabling.
12. **LSI Keywords:** Network cabling, transmission media, cable categories.

3. Network Protocols

Knowledge of key protocols like TCP, UDP, IP, HTTP, FTP, DNS, and their basic functions is crucial.

Example 2-Mark Questions & Answers:

1. **Question:** What does TCP stand for, and what is its primary characteristic?

2. **Answer:** TCP stands for Transmission Control Protocol. Its primary characteristic is its reliability and ordered delivery of data, ensuring no data is lost or duplicated.
3. **Keywords:** TCP, Transmission Control Protocol, reliable, ordered delivery, connection-oriented.
4. **LSI Keywords:** Transport layer protocols, data integrity, flow control.
5. **Question:** What is the role of UDP in network communication?
6. **Answer:** UDP (User Datagram Protocol) provides a connectionless, unreliable datagram service, offering faster transmission but without guaranteed delivery or ordering.
7. **Keywords:** UDP, User Datagram Protocol, connectionless, unreliable, datagram, speed.
8. **LSI Keywords:** Streaming media, online gaming, lightweight protocol.
9. **Question:** Explain the function of DNS.
10. **Answer:** DNS (Domain Name System) translates human-readable domain names (like www.google.com) into machine-readable IP addresses.
11. **Keywords:** DNS, Domain Name System, domain name, IP address, name resolution.
12. **LSI Keywords:** Internet infrastructure, naming

conventions, hierarchical system.

4. IP Addressing and Subnetting

Basic understanding of IP address classes, private vs. public IPs, and the concept of subnetting is often tested.

Example 2-Mark Questions & Answers:

1. **Question:** What is a private IP address? Give an example.
2. **Answer:** A private IP address is a non-routable IP address used within a local network. Example: 192.168.1.1.
3. **Keywords:** Private IP address, non-routable, local network, IP address classes.
4. **LSI Keywords:** NAT (Network Address Translation), IP addressing scheme, network security.
5. **Question:** What is a subnet mask?
6. **Answer:** A subnet mask is a 32-bit number used to divide an IP address into network and host portions, allowing for efficient use of IP addresses and network segmentation.
7. **Keywords:** Subnet mask, network portion, host portion, IP address, network segmentation.
8. **LSI Keywords:** Subnetting, network management, CIDR (Classless Inter-Domain Routing).

5. Network Topologies and Security Basics

Familiarity with common network topologies (bus, star, ring, mesh) and basic network security concepts is also common.

Example 2-Mark Questions & Answers:

1. **Question:** Name two common network topologies.
2. **Answer:** Star topology and Bus topology. (Other valid answers include Ring, Mesh, Hybrid).
3. **Keywords:** Network topology, Star, Bus, Ring, Mesh.
4. **LSI Keywords:** Network design, scalability, fault tolerance.
5. **Question:** What is a firewall?
6. **Answer:** A firewall is a network security device that monitors and controls incoming and outgoing network traffic based on predetermined security rules.
7. **Keywords:** Firewall, network security, traffic control, security rules, intrusion prevention.
8. **LSI Keywords:** Cybersecurity, network protection, access control lists.

Strategies for Answering CS6551 2-Mark Questions Effectively

To excel in 2-mark questions for CS6551, adopting a strategic approach is key. It's not just about knowing the answer, but about presenting it effectively within the given constraints.

1. Clarity and Conciseness: The Golden Rule

The most critical aspect of a 2-mark answer is its brevity and directness. Avoid unnecessary jargon or lengthy explanations. Get straight to the point. If asked for a definition, provide a precise one. If asked to name something, list them clearly. Think about the essential information that answers the question in the fewest words possible.

2. Keywords and Definitions

For definitional questions, ensure you use the correct terminology. Identify the core keywords of the concept and build your answer around them. For example, when defining a router, 'connects networks', 'forwards packets', and 'uses IP addresses' are essential keywords.

3. Examples Where Appropriate

If the question allows for or benefits from an example, provide a clear and relevant one. For instance, when asked about private IP addresses, providing an example like 192.168.1.1 immediately clarifies the concept.

4. Understand the Question's Intent

Read the question carefully. Does it ask for a definition, a comparison, a function, or an example? Tailor your answer to address exactly what is being asked. Misinterpreting the question can lead to an incorrect or incomplete answer, even if you know the related concepts.

5. Practice with Past Papers

The best way to prepare is to work through previous years' question papers. This will expose you to the common patterns, the level of detail expected, and the typical phrasing of questions. Create your own answer bank for 2-mark questions.

6. Focus on Understanding, Not Just

Memorization

While quick recall is important, a true understanding of the underlying principles will help you adapt if a question is phrased slightly differently. Connect concepts. For instance, understand **why** a router uses IP addresses and **why** a switch uses MAC addresses. This deeper knowledge will serve you well.

Conclusion

CS6551 Computer Networks is a subject that demands a strong foundation in fundamental principles. The 2-mark questions are designed to test this very foundation. By understanding the common themes, practicing with targeted examples, and adopting a strategy of clarity and conciseness, students can confidently tackle these crucial questions. Mastering these seemingly small points can significantly boost your exam performance, paving the way for a deeper exploration of the complex and fascinating world of computer networks. Remember, a solid understanding of the basics is the first step towards becoming proficient in **network management**, **network design**, and advanced **networking solutions**.

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Questions & Answers About

cs6551 computer networks 2

marks with answers

No	Question	Answer
1	What is the fundamental purpose of CS6551 Computer Networks?	CS6551 Computer Networks primarily focuses on understanding the principles, protocols, and architecture of computer networks. It aims to equip students with the knowledge to design, analyze, and manage network systems effectively.
2	Can you briefly explain the OSI model and its significance in CS6551?	The OSI (Open Systems Interconnection) model is a conceptual framework that standardizes the functions of a telecommunication or computing system in terms of abstraction layers. Its significance lies in providing a common language and structure for understanding network communication, enabling interoperability between diverse systems.

3	What is the difference between TCP and UDP, and when would you use each?	TCP (Transmission Control Protocol) is connection-oriented, reliable, and provides ordered data delivery. It's used for applications requiring accuracy, like web browsing (HTTP) and file transfer (FTP). UDP (User Datagram Protocol) is connectionless, faster, but unreliable. It's suitable for applications where speed is paramount and minor data loss is acceptable, such as streaming and online gaming.
4	Define IP addressing and explain the concept of subnetting in CS6551.	IP addressing is a system for assigning unique numerical labels to devices connected to a computer network. Subnetting is the process of dividing a larger IP network into smaller, more manageable subnetworks. This improves network performance, security, and efficient use of IP addresses.
5	What are the key functions of a router in a computer network?	Routers are responsible for forwarding data packets between different computer networks. Their key functions include determining the best path for data to travel, managing traffic flow, and connecting dissimilar network types.

6	How does CS6551 approach the concept of network security?	CS6551 covers various network security aspects, including encryption, authentication, firewalls, intrusion detection/prevention systems, and common network attacks (e.g., DoS, Man-in-the-Middle). It emphasizes understanding vulnerabilities and implementing protective measures.
7	What is the role of MAC addresses in network communication?	MAC (Media Access Control) addresses are unique hardware identifiers assigned to network interface controllers (NICs). They operate at the data link layer and are used for local network communication, ensuring that data packets are delivered to the correct device within a specific network segment.

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