

Cs6551 Computer Networks 2 Marks With Answers

****Comprehensive Guide to CS6551 Computer Networks 2 Marks with Answers**** **cs6551 computer networks 2 marks with answers** is a topic that many students preparing for exams often search for. Whether you're a student at Anna University or pursuing a course related to computer networks, having a handy collection of concise 2-mark questions with accurate answers can be a game-changer. These quick questions serve as an excellent revision tool, helping you grasp fundamental concepts and clear your basics effectively. In this article, we'll explore some of the most important 2-mark questions from the CS6551 syllabus. Along the way, we'll discuss related concepts like networking layers, protocols, data transmission, and more, ensuring you get a deeper understanding rather than just rote memorization. So, let's dive into the world of computer networks and get you fully prepped with essential short answers.

Understanding the Importance of 2 Marks Questions in CS6551

When it comes to exams, 2 marks questions are incredibly valuable. They test your grasp on specific topics without requiring lengthy explanations, making them straightforward to answer if you know the concepts well. For CS6551, which primarily deals with computer networks, these questions often cover definitions, protocol characteristics, and basic mechanisms. These questions are designed to check your foundational knowledge on topics like OSI and TCP/IP models, switching techniques, error control methods, and routing algorithms. Mastering these brief questions not only helps you score but also builds a solid base for tackling more complex topics in computer networks.

Why Focus on 2 Marks Questions?

- Quick revision before exams.
- Easy to memorize and recall.
- Covers broad syllabus areas efficiently.
- Helps in understanding key terms and definitions.
- Builds confidence for longer descriptive answers.

Essential CS6551 Computer

Networks 2 Marks with Answers

Here is a collection of commonly asked 2 marks questions along with their precise answers. These are tailored to help you revise quickly and effectively.

1. What is a Computer Network?

A computer network is a group of interconnected computers that share resources and data through communication channels.

2. Define the OSI Model.

The OSI (Open Systems Interconnection) model is a conceptual framework that standardizes the functions of a telecommunication or computing system into seven layers.

3. List the layers of the OSI model.

Physical, Data Link, Network, Transport, Session, Presentation, Application.

4. What is the main function of the Transport Layer?

The Transport Layer provides end-to-end communication control and error handling between hosts.

5. Define IP Address.

An IP address is a unique identifier assigned to each device connected to a network that uses the Internet Protocol for communication.

6. What is the difference between TCP and UDP?

TCP (Transmission Control Protocol) is connection-oriented and reliable, while UDP (User Datagram Protocol) is connectionless and faster but unreliable.

7. What is a MAC address?

A MAC (Media Access Control) address is a unique hardware identifier assigned to a network interface card.

8. Define routing.

Routing is the process of selecting paths in a network along which data packets are sent from source to destination.

9. What is a subnet mask?

A subnet mask divides an IP address into network and host portions to facilitate IP addressing and routing.

10. What is the purpose of ARP?

Address Resolution Protocol (ARP) maps a known IP address to a MAC address in a local network.

Key Networking Concepts to Remember Alongside CS6551 2 Marks Questions

While having answers at your fingertips is helpful, understanding the context behind these questions is equally important. Let's look at some core concepts related to the CS6551 syllabus that frequently appear in 2 marks questions.

Network Topologies

Network topology refers to the arrangement of various elements (links, nodes, etc.) in a computer network. Common types include bus, star, ring, and mesh topologies. Knowing their advantages and disadvantages is often tested.

Switching Techniques

There are three main switching techniques - Circuit Switching, Packet Switching, and Message Switching. Each has unique characteristics regarding how data is

transmitted.

Error Detection and Correction

Understanding methods like parity checks, CRC (Cyclic Redundancy Check), and Hamming code is essential for answering 2 marks questions related to data integrity.

Protocols and Their Functions

Protocols define rules for communication. For instance, HTTP is used for web browsing, FTP for file transfer, SMTP for email, and so on. Knowing which protocol operates at which layer is crucial.

Tips to Effectively Prepare CS6551 Computer Networks 2 Marks with Answers

To make the most out of your revision, here are some practical tips:

1. **Create Flashcards:** Write questions on one side and answers on the other to quiz yourself regularly.
2. **Group Related Questions:** Categorize questions by topics like network layers, protocols, and addressing to reinforce learning.
3. **Use Diagrams:** Visual aids like the OSI model diagram or network topology charts help retain information

better.

4. **Practice Repeatedly:** Consistent practice is key to memorizing 2 marks answers quickly.
5. **Understand, Don't Memorize:** Try to comprehend the concept behind the answer to improve recall and application.

How to Approach CS6551 Exam Questions Beyond 2 Marks

While 2 marks questions are straightforward, CS6551 exams also include longer questions that require explanations, diagrams, and sometimes problem-solving. Use your knowledge from short answers as building blocks. For example, understanding the OSI model's layers helps you explain protocol functions in detail. Moreover, practicing previous year question papers and model exams can give insight into question patterns and help manage time efficiently during the exam.

Additional Resources to Strengthen Your Preparation

If you're looking for more comprehensive study material, consider: - Standard textbooks like "Computer Networks" by Andrew S. Tanenbaum. - Online tutorials and video lectures focusing on network fundamentals. - University-provided study guides and notes tailored for CS6551. -

Discussion forums and study groups to clarify doubts and share knowledge. Incorporating these resources alongside your 2 marks question study will boost your confidence and help you excel in your computer networks exam. Mastering **cs6551 computer networks 2 marks with answers** is more than just memorizing short definitions. It's about building a strong foundation in the fundamentals of networking, which will serve you well throughout your academic and professional journey. With consistent practice and a clear understanding of concepts, you can easily tackle these questions and pave the way for success in your exams.

In today's hyper-connected digital environment, understanding computer networks remains a foundational skill, especially within structured learning frameworks like cs6551 computer networks 2 marks with answers. This article delves deeply into the core principles, practical applications, and evolving challenges shaping modern network design—critical for students aiming to master assessment criteria and enhance their academic and professional readiness.

Understanding the Foundations of cs6551 Computer

The cs6551 computer networks 2 marks with answers coursework demands a solid grasp of theoretical

frameworks aligned with current industry standards. As networks transition toward intelligent, scalable architectures, mastering these materials ensures students can deliver well-structured solutions. The curriculum emphasizes critical thinking, practical implementation, and real-world problem solving—elements that elevate grades and preparedness.

To excel, learners must connect foundational theories—like OSI model layers and TCP/IP protocols—to contemporary network deployment. This approach acknowledges that recent advancements, such as 5G and edge computing, demand adaptive learning. Students should prioritize mastering concepts foundational to assessment rubrics, ensuring readiness for both traditional exams and project-based evaluations.

Core Principles of Network Architecture

Network architecture serves as the blueprint for effective data communication. A well-designed structure balances scalability, security, and efficiency—cornerstones of modern IT infrastructure. Key components include routers, switches, firewalls, and servers, each playing distinct roles in data transit and management.

Layered Frameworks and Their Importance

The OSI model, a persistent framework, guides network design by segmenting communication into seven logical layers. Recognizing this structure clarifies how information traverses networks, avoids bottlenecks, and isolates issues. Though newer models like the TCP/IP stack dominate, the OSI model remains essential for explaining complex interactions.

1. Layer abstraction simplifies troubleshooting and optimization.
2. Standardization fosters interoperability across vendors and platforms.

Understanding these principles is central to addressing cs6551 computer networks 2 marks with answers successfully.

Key Technologies and Innovations

Modern networks rely on converging technologies to meet demand. Cloud integration, software-defined networking (SDN), and network functions virtualization (NFV) drive innovation, enabling dynamic bandwidth allocation and simplified configuration. For instance, SDN separates control from forwarding, empowering centralized network management.

In 2026, machine learning is increasingly embedded in network operations. Predictive analytics prevent outages, while anomaly detection enhances security—a critical feature against sophisticated cyberattacks. IoT expansion further amplifies data flow, necessitating robust, low-latency infrastructure like 5G and mesh topologies.

These developments directly inform the cs6551 curriculum, ensuring coursework stays current with industry demands. Graduates must adapt to evolving tech; 68% of network jobs emphasize hands-on experience with SDN and automation tools (Gartner, 2026).

Practical Applications and Real-World Relevance

Networks power everything from corporate LANs to global internet connectivity. Edge computing reduces latency by processing data near sources, crucial for autonomous vehicles and industrial IoT. Meanwhile, SD-WAN optimizes branch connectivity, cutting costs by up to 30%—a metric instructors often assess.

Addressing Security Modern Challenges

Cybersecurity remains paramount. With 43% of organizations experiencing a data breach in 2025 (IBM

Report), securing network perimeters and endpoints is non-negotiable. Zero Trust Architecture, which validates every access request, is now standard. Firewalls, encryption, and multi-factor authentication form a layered defense critical to cs6551 exam prep.

Simulating attack scenarios during labs strengthens security comprehension. For example, analyzing phishing risks or WLAN vulnerabilities reinforces mitigation best practices—directly applicable to the '2 marks with answers' requirements.

Mastering Assessment Strategies

Exam success in cs6551 computer networks 2 marks with answers relies on structured preparation. First, comprehend the syllabus thoroughly: identify high-weightage topics like routing protocols or network measurement. Targeted revision solidifies retention.

1. Create concept maps linking protocols, models, and devices.
2. Practice past papers under timed conditions to refine speed and accuracy.

Teachers often emphasize application over rote memorization. Thus, building problem-solving skills—translating theory into real-world solutions—is key. Faculty insights indicate that teams solving multi-step scenarios perform 25% better in assessments.

Integrating Theory with Industry Trends

CS6551's relevance stems from bridging classroom learning and industry innovation. Cloud migration, IoT proliferation, and AI-driven optimization redefine network roles. Graduates skilled in these areas lead organizations, making them valuable assets.

Recent data highlights growing demand: 82% of IT firms report investing in AI-enabled network management (Forrester, 2026). The UN's sustainable network initiatives also promote eco-friendly designs, shaping long-term strategies.

Emerging Skills and Career Pathways

Future network engineers require hybrid expertise—networking fundamentals paired with software development or cybersecurity. Certifications like CCNP and CISSP validate these skills, aligning with cs6551 learning outcomes.

According to LinkedIn's 2026 Emerging Jobs Report, network architects and security analysts see 15% annual growth. Proficiency in 802.1X authentication or VXLAN expands career options, ensuring lasting employability.

Future of Networking: Predictions for 2026

Networking will shift toward automation and intelligence.

AI will autonomously adjust routing, balance loads, and anticipate issues—freeing engineers for strategic tasks. Quantum networking, still experimental, promises unhackable communication channels.

Trends like closed-loop networks—self-healing and self-optimizing—will reduce downtime. These innovations mean today's study of cs6551 computer networks 2 marks with answers prepares students for tomorrow's challenges.

Investments in IPv6 expansion (now covering 40% of global IP space) ensure scalability. As bandwidth demands surge—exceeding 100 zettabytes annually by 2028—networks must evolve rapidly.

Conclusion: Sustaining Relevance Through Knowledge

The journey through cs6551 computer networks 2 marks with answers equips learners with both foundational insights and forward-looking adaptability. From OSI layers to AI-driven optimization, every concept reinforces competence.

Success depends on absorbing core principles, mastering tools, and applying knowledge contextually. Highlighting practical examples—like SDN reducing operational costs—strengthens retention. Regular updates on protocols, IoT integration, and security threats avoid obsolescence.

Ultimately, the curriculum does more than earn marks. It

cultivates experts capable of driving innovation and safeguarding digital ecosystems. As technology advances, the principles from cs6551 remain essential; continual learning is key. By integrating these strategies, students transform from learners to leaders.

In summary, "cs6551 computer networks 2 marks with answers" is not merely about assessment—it's about building a bridge between current practice and future possibilities. Stay informed, stay curious, and continue mastering.

Meta description: Master cs6551 computer networks 2 marks with answers by exploring layered architectures, emerging technologies, and practical applications—key to academic success and industry readiness.

****CS6551 Computer Networks 2 Marks with Answers: A Detailed Review**** **cs6551 computer networks 2 marks with answers** serves as a crucial resource for students and professionals navigating the complex field of computer networks. As an academic course module, CS6551 is designed to provide foundational knowledge and critical insights into network architectures, protocols, and design principles. The availability of concise 2-mark questions along with their answers not only aids in quick revision but also helps in grasping essential concepts efficiently, which is vital for examinations and practical applications alike.

Understanding the significance of these brief yet impactful questions requires an exploration into their role within the broader curriculum and how they enhance comprehension of intricate networking topics. This article delves into the structure, content, and effectiveness of CS6551 computer networks 2 marks with answers, highlighting their pedagogical value and alignment with industry standards.

Understanding CS6551: The Computer Networks Course Framework

The CS6551 course typically covers an extensive range of topics related to computer networking, including but not limited to network models, switching techniques, routing protocols, transport layer services, and network security mechanisms. The course is structured to develop both theoretical knowledge and practical skills through lectures, assignments, and examinations. In this context, 2-mark questions play a pivotal role in assessing foundational understanding. These questions are designed to be direct, often focusing on definitions, characteristics, comparisons, or concise explanations. For example, a typical 2-mark question might ask for the definition of the OSI model or the primary function of the transport layer. Such questions ensure that students have

a clear grasp of fundamental terminologies and concepts.

Why 2 Marks Questions Are Integral in Computer Networks Education

The brevity of 2-mark questions demands precision and clarity in responses. This format encourages students to distill complex ideas into their core components, facilitating better retention and recall. Moreover, these questions often serve as building blocks for more elaborate problem-solving scenarios found in higher-mark questions. In the context of CS6551, 2-mark questions with answers help in:

1. Reinforcing key definitions and protocols such as TCP/IP, UDP, and routing algorithms.
2. Clarifying differences between network types like LAN, WAN, and MAN.
3. Summarizing the roles of various network devices including routers, switches, and hubs.
4. Highlighting the principles of error detection and correction mechanisms.

This approach ensures that students remain aligned with the core syllabus while preparing efficiently for semester exams and competitive tests.

Content Analysis of CS6551

Computer Networks 2 Marks with Answers

An in-depth review of typical 2-mark questions from the CS6551 module reveals a well-balanced focus on theoretical concepts and practical networking elements. The answers are concise yet comprehensive, providing just enough information to demonstrate understanding without unnecessary elaboration.

Examples of 2 Marks Questions and Their Significance

1. **Define a subnet mask.** A subnet mask is a 32-bit number used to divide an IP address into network and host portions, facilitating efficient IP address management.
2. **What is the primary function of the transport layer?** The transport layer provides end-to-end communication services for applications, ensuring reliable data transfer and flow control.
3. **Differentiate between TCP and UDP.** TCP is connection-oriented and reliable, providing error checking and flow control, whereas UDP is connectionless, faster but without guaranteed delivery.
4. **List two types of switching techniques.** Circuit

switching and packet switching are the two primary switching techniques used in networks.

Each question targets a specific learning objective, allowing students to focus on key points efficiently.

Integration of LSI Keywords for Enhanced Learning

The study of CS6551 computer networks 2 marks with answers naturally incorporates several latent semantic indexing (LSI) keywords, such as network protocols, IP addressing, routing algorithms, network layers, and data communication. These terms are essential for a holistic understanding of the subject and are interwoven seamlessly within the answers to reinforce learning. For instance, when discussing the OSI model in a 2-mark question, terms like “network layers,” “data encapsulation,” and “protocol stacks” are inherently referenced, providing contextual depth without overwhelming the learner.

Comparative Insights: CS6551 2 Marks Questions Versus Other Assessment Formats

While 2-mark questions serve as quick checkpoints, other formats such as long-form descriptive questions and

practical assignments test analytical thinking and application skills. However, the value of short questions lies in their ability to cover a wide spectrum of topics succinctly. Compared to multiple-choice questions (MCQs), 2-mark questions require students to articulate answers in their own words, promoting active recall and conceptual clarity. This makes the 2-mark question-answer format indispensable in disciplines like computer networking where understanding terminology and definitions is foundational.

Advantages and Limitations of 2 Marks Questions in CS6551

1. Advantages:

1. Quick assessment and revision of core concepts.
2. Encourages concise and focused learning.
3. Facilitates coverage of a broad syllabus.
4. Improves memory retention through frequent recall.

2. Limitations:

1. Limited depth; complex topics may require more elaborate explanation.
2. May not fully assess analytical or problem-solving skills.
3. Risk of rote memorization without conceptual understanding.

Balanced use of 2-mark questions alongside other assessment types can optimize learning outcomes for

CS6551 students.

Effective Strategies for Utilizing CS6551 Computer Networks 2 Marks with Answers

Students preparing for computer networks examinations can leverage 2-mark questions with answers as an effective revision tool. Here are some recommended strategies:

1. **Active Recall Practice:** Regularly attempt answering 2-mark questions without referring to notes to enhance memory retention.
2. **Flashcard Creation:** Use flashcards with questions on one side and answers on the other for quick and repetitive review sessions.
3. **Group Study Discussions:** Engage in peer discussions to clarify doubts and share different perspectives on concise questions.
4. **Linking Concepts:** Connect 2-mark answers to larger topics or case studies for deeper understanding.

These methods not only prepare students for exams but also build a strong conceptual foundation essential for practical networking challenges.

Role of Online Resources and Question Banks

With the digital transformation in education, numerous online platforms offer curated CS6551 computer networks 2 marks with answers, providing instant access to a wide array of questions. These resources often include previous year question papers, sample papers, and model answers that mirror the exam pattern.

Utilizing such question banks can help students identify frequently asked questions, understand the expected answer format, and manage time effectively during examinations. The integration of multimedia content like video explanations and interactive quizzes further enhances comprehension and engagement. The scope of CS6551 extends beyond academic assessments, impacting career trajectories in fields such as network administration, cybersecurity, and systems engineering. Mastery of fundamental 2-mark questions serves as a stepping stone towards advanced certifications and real-world applications. As networking technologies evolve, staying updated with foundational knowledge through concise Q&A formats remains a strategic approach for learners aiming to maintain relevance and proficiency in the domain.

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and continue their journey of lifelong learning in the digital age.

cs6551 Computer Networks 2 Marks with Answers: A Comprehensive Analysis In the ever-evolving landscape of digital infrastructure, mastering cs6551 computer networks 2 marks with answers is not merely an academic pursuit—it is a strategic imperative. As network technologies advance, academic curricula often distill complex principles into concise examinations, demanding both theoretical depth and applied precision. The examination, frequently structured around practical case analysis and theoretical validation, requires students to engage critically with industry practices and foundational concepts. This article dissects the nuances of the cs6551 certification, emphasizing its role in accrediting professionals and driving data-driven decision-making across network domains. ###

Understanding the cs6551 Examination Framework

The cs6551 computer networks 2 marks with answers exam evaluates comprehension of core network architecture, protocols, and contemporary trends. Unlike traditional tests, this module integrates practical demands with conceptual rigor, ensuring candidates can navigate real-world challenges. Examiners emphasize

network security, bandwidth management, and quality of service (QoS) metrics—all critical to modern IT environments. The assessment format typically contains multiple-choice questions paired with scenario-based problem solving, including network topology design and troubleshooting. Responses must justify solutions with evidence from industry standards like IEEE and IETF, reflecting current best practices. ###

Core Concepts and Their Technical Significance

The foundation of high performance in cs6551 revolves around understanding network protocols and scalability. Protocols such as TCP/IP and BGP form the backbone of communication, while emerging technologies like Software-Defined Networking (SDN) redefine management paradigms.

TCP/IP Architecture: This layered model remains pivotal, with each layer addressing distinct challenges. For example, the Transport Layer ensures end-to-end reliability, while the Application Layer interfaces with end-user services.

VLAN Implementation: Virtual Local Area Networks enhance segmentation, improving security and reducing broadcast domains—proven effective in large enterprise deployments. Pros include adaptable learning resources like Cisco's CCNA and online labs simulating real network stress tests. Cons may involve rapidly shifting

standards, requiring continuous upskilling to maintain relevance. ###

Network Security and Compliance: A Critical

With cyber threats escalating, the cs6551 assessment places significant weight on security measures.

Candidates must demonstrate knowledge of firewalls, intrusion detection systems (IDS), and encryption—particularly AES and TLS protocols.

Compliance with regulations like GDPR and HIPAA is also evaluated to ensure networks protect sensitive data. Data reveals that organizations investing in network security reduce breach impacts by up to 40%, underscoring its tangible ROI. Comparatively, a lack of defense leads to average annual losses of \$4.45 million for compromised firms. ###

Comparative Analysis: Theory vs. Practice

Student performance in cs6551 frequently hinges on bridging theoretical understanding and practical application. For instance, while MTU size is a theoretical concept, improper configuration can cause packet fragmentation, disrupting throughput. Real-world examples like the 2019 ISP outage highlight how

misaligned QoS policies amplify latency issues. Examples of successful implementation abound: Cloudflare's edge networking leverages SDN to optimize global traffic, reducing load times by over 30% during peak demand. Such case studies serve as benchmarks, enabling learners to correlate academic content with industry success. ###

Technical Skills Required for Success

Proficiency in tools like Wireshark, NetFlow analyzers, and Cisco IOS is indispensable. These utilities facilitate deep packet inspection and traffic analysis, empowering students to diagnose bottlenecks. Wireshark: Identifies protocol anomalies, revealing misconfigurations invisible to standard monitoring. NetFlow: Enables bandwidth insight, critical for enforcing QoS policies in corporate networks. Lists of key skills include: Troubleshooting IPv4/IPv6 migration Configuring VLANs and Access Lists Analyzing firewall logs While these competencies are transferable across vendors, vendor-specific differences (e.g., Cisco vs. Juniper) may present challenges, necessitating comparative training. ###

Challenges and Strategic Solutions

A recurring issue is balancing theoretical breadth with

practical depth. Overemphasis on memorization leads to poor application, while insufficient theory limits adaptability. To counter this, students are advised to adopt active learning—building lab projects that mirror real-world constraints. Examples of effective strategies include: 1. Simulating network failures using GNS3 or Packet Tracer 2. Participating in Cisco’s IT Practitioner training programs 3. Reviewing peer-reviewed papers on 5G and IoT integrations These methods reinforce retention and contextual understanding. ###

Future Trends and the Evolving Role

The field anticipates transformative shifts: AI-driven network automation, quantum-resistant cryptography, and edge computing expansion. The cs6551 curriculum must evolve to prepare admins for these domains. For instance, machine learning models now predict traffic surges, optimizing resource allocation—skills increasingly essential. Pros suggest early adoption: graduates trained in modern tools gain a competitive edge. Cons may involve resource constraints for institutions to update materials. ###

Data-Driven Recommendations

To excel, learners should prioritize: Regular updates to

knowledge via platforms like Coursera and edX Hands-on labs to solidify protocol and tool usage Networking with professionals for insights into current challenges Contextually relevant pros extend to reinforcing soft skills like clear documentation and stakeholder communication—often undervalued but crucial for team cohesion. ### Conclusion: The Enduring Value of cs6551 The cs6551 computer networks 2 marks with answers exam remains a cornerstone of networking education. Its comprehensive structure ensures candidates grasp both theoretical principles and actionable strategies. As technology advances, the ability to apply foundational knowledge—coupled with adaptability—will define success. By integrating rigorous study with industry-aligned practice, professionals can navigate the complexities of modern networks with confidence.

Final Thoughts

Investing in understanding cs6551 is an investment in long-term career resilience. With data pointing toward sustained demand for network experts, and pros outweighing cons when approached strategically, the examination emerges not as a hurdle, but as a gateway.

1. Continuous learning sustains relevance in dynamic environments.
2. Practical application confirms theoretical mastery.
3. Collaboration accelerates problem-solving efficiency.

This iterative process ensures students transition from exam-takers to indispensable network architects.

Conclusion Paragraph

Ultimately, the cs6551 computer networks 2 marks with answers serves as a benchmark—not just for grades, but for competence. As infrastructure demands grow, so too does the need for professionals grounded in innovation, collaboration, and critical thinking. The insights and strategies detailed here provide a foundation for achieving excellence.

Questions & Answers About cs6551 computer networks 2 marks with answers

No	Question	Answer
1	What is the primary purpose of the Transport Layer in computer networks?	The Transport Layer provides end-to-end communication services for applications, including error recovery and flow control.
2	Define congestion control in computer networks.	Congestion control is a mechanism to prevent network congestion by controlling the data entry rate into the network.

3	What is the difference between TCP and UDP?	TCP is connection-oriented and reliable, while UDP is connectionless and provides no guarantee of delivery.
4	What is the role of the Network Layer?	The Network Layer is responsible for routing packets from source to destination across multiple networks.
5	Explain the term 'flow control'.	Flow control is a technique to ensure that the sender does not overwhelm the receiver by sending data too quickly.
6	What is a socket in the context of computer networks?	A socket is an endpoint for sending or receiving data across a network, identified by IP address and port number.
7	What does the term 'three-way handshake' refer to in TCP?	It is the process of establishing a TCP connection through SYN, SYN-ACK, and ACK messages.
8	Define 'routing algorithm'.	A routing algorithm determines the optimal path for data packets to travel across a network.
9	What is the main function of the Data Link Layer?	The Data Link Layer provides node-to-node data transfer and error detection/correction.
10	What is 'packet switching'?	Packet switching is a method of data transmission where data is broken into packets and each packet is routed independently.

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