

Basic electrical engineering viva questions

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What are the questions for an electrical engineer?

What are the basic electrical questions and answers?

What is basic fundamentals for an electrical engineering? Ohm's Law gives the correlation between electric current (I), Voltage (V), and resistance (R) in a conductor. These are the fundamental principles of electrical engineering which student who want to pursue electrical engineering should be aware.

What are the basics an electrical engineer should know?

What are 3 questions engineers ask?

What are 5 things electrical engineers do? Electrical engineers design, develop, test, and supervise the manufacture of electrical equipment, such as electric motors, radar and navigation systems, communications systems, or power generation equipment. Electrical engineers also design the electrical systems of automobiles and aircraft.

What are the 3 rules of electrical?

What are the 3 basics of electricity? The three most basic components of electricity are voltage, current, and resistance. VOLTAGE is like the pressure that pushes water through the hose. It is measured in volts (V). CURRENT is like the diameter of the hose.

What are the 3 basic types of electrical circuits? Open circuit voltage is measured when there is no current flow through the circuit. There are three basic types of circuits: Series, Parallel, and Series-Parallel. Individual electrical circuits

normally combine one or more resistance or load devices.

What is voltage and current? Voltage: Voltage is the force that makes electrons flow. It's a difference in potential energy between two different points in a circuit. Current: Current is the rate of the flow of electrons. It's measured in amperes, which are also called amps. Power (Watts): The power used in a circuit is measured in watts.

What are the five electrical fundamentals? These are resistance, capacitance, inductance, reactance, and impedance.

What are the four main principles of electricity? Volts, amps, ohms, and watts are therefore the four fundamental units of electricity.

What are the 5 golden rules of electrical engineering? Disconnect from the mains
• Secure against reconnection • Verify that the system is dead • Carry out earthing and short circuiting • Provide protection from adjacent live parts. In the field, these are performed exclusively by electrical specialists.

What is the basic electrical concept? The most fundamental law in electricity is Ohm's law or $V=IR$. The V is for voltage, which means the potential difference between two charges. In other words, it is a measurement of the work required to move a unit charge between two points.

What is the first topic in electrical engineering? Here are some key topics commonly included in introductory electrical engineering courses: Circuit Analysis: Ohm's Law and Kirchhoff's Laws Series and parallel circuit, node and mesh analysis. Electricity and Magnetism: Electric charge and electric field, magnetic fields and magnetic circuits Electromagnetic induction.

What is the Big 4 in engineering? In broad terms, engineering can be divided into four main categories — chemical, civil, electrical and mechanical. Each of these types requires different skills and engineering education.

What are the three pillars of engineering?

What are the 3 main types of questions? Open, Closed, Probing Closed questions often lead to a simple yes/no answer. Open questions however, lead to more

complex and extended answers. Probing questions are quite similar to open questions, except that they seek to build on what has been previously discussed.

What is the SOC code for electrical engineer? 17-2071.00 Electrical Engineers.

What are the 3 fields of electrical engineering?

What is the main goal in electrical engineer? As an Electrical Engineer, developing a deep understanding of advanced circuit design is paramount. Set a goal to master complex electronic systems, which could involve learning new software tools, keeping up with emerging technologies, or taking specialized courses.

What questions engineers should ask?

How to prepare for an electrical engineer interview?

How do I prepare for electrical engineering? Preparation for electrical engineering begins in high school. Engineering school entrance requirements vary, but they typically include chemistry, physics, trigonometry, algebra, geometry, and calculus. English, computer science, applied technology, and statistics will also help provide a foundation for college.

What is electrician questions? In-depth electrician interview questions Here are some questions they might ask you about electrical work: What is the most important piece of safety equipment for an electrician? What are some safety hazards an electrician can expect on the job? Imagine a coworker received a severe electrical shock. What do you do?

What are the 6 cognitive psychology? The 6 areas of cognitive psychology are memory, learning, intelligence, language, thinking, and problem-solving. Who founded cognitive psychology? Ulric Neisser founded the field of cognitive psychology in the 1960s.

What is cognitive psychology in psychology? Cognitive psychology is the branch of psychology dedicated to studying how people think. The cognitive perspective in psychology focuses on how the interactions of thinking, emotion, creativity, and problem-solving abilities affect how and why you think the way you do.

What is cognitive psychology pdf? (PDF) Cognitive psychology is a broad field of study that seeks to understand the mental processes that underlie human cognition.

What is Sternberg known for? Robert Sternberg is an American psychologist. He is best known for his intelligence theory, which states that there are three aspects to intelligence. These are creative, analytical, and practical intelligence.

What are the 6 principles of cognitive factors?

What are the 6 cognitive skills?

What are the principles of cognitive psychology? Cognitive psychology is founded on four main basic principles that help guide the scientific process of understanding how a person thinks and how those thoughts influence that person's behavior. These principles are: perception, language, memory, and reasoning.

What is the cognitive theory of psychology? Cognitive theories are characterized by their focus on the idea that how and what people think leads to the arousal of emotions and that certain thoughts and beliefs lead to disturbed emotions and behaviors and others lead to healthy emotions and adaptive behavior.

What is an example of a cognitive approach in psychology? An example of the cognitive approach is the inductive approach to teaching—this can be math, grammar, or other subjects. The inductive approach is a discovery learning approach led by the student, who discovers the grammar rules for themselves through activities instead of being directly taught the rules.

What are the key areas of cognitive psychology? These include perception, human learning, attention, categorization, problem solving, decision-making, information processing and retrieval, short and long-term memory and forgetting, sensory encoding, motor control, psycholinguistics, and reading.

What are the basic beliefs of cognitive psychology? Cognitive psychology is based on two assumptions: (1) Human cognition can at least in principle be fully revealed by the scientific method, that is, individual components of mental processes can be identified and understood, and (2) Internal mental processes can be described in terms of rules or algorithms in ...

What are the key issues of cognitive psychology? The key issues in the study of this subject are biological and behavioral functions of brain, role of environment in direct cognition, use of logic and observation in knowing truths about ourselves and the world, course of thinking in human mind, and clinical applications on the basic brainpower.

What is the theory given by Sternberg? Sternberg's theory identifies three types of intelligence: practical, creative, and analytical. Practical intelligence, as proposed by Sternberg, is sometimes compared to “street smarts.” Being practical means you find solutions that work in your everyday life by applying knowledge based on your experiences.

What are the three components of Robert Sternberg? Also, Robert Sternberg's triangular theory of love proposes intimacy, commitment, and passion are the three components that can be used to understand love's nature. Sternberg was the proponent of the triangular theory of love that explains various types of love through three scales: passion, commitment, and intimacy.

What are the criticisms of Sternberg's theory? One problem is that the three types of intelligence may not be completely different. Sternberg found that the three types correlated with each other. This shows they are related, not fully independent. Another issue is that the theory does not fully explain the relationships between the types of intelligence.

What are the 6 areas of cognition? Defining the Six Key Domains of Cognitive Function. The DSM-5 defines six key domains of cognitive function: complex attention, executive function, learning and memory, language, perceptual-motor control, and social cognition.

What are the six major categories of cognitive learning? Bloom's cognitive domains. Bloom's cognitive taxonomy originally was represented by six different domain levels: (1) knowledge, (2) comprehension, (3) application, (4) analysis, (5) synthesis, and (6) evaluation. All of the Bloom domains focused on the knowledge and cognitive processes.

What are the 6 higher order thinking cognitive objectives? Higher-order thinking skills (HOTS) is a concept popular in American education. It distinguishes critical thinking skills from low-order learning outcomes, such as those attained by rote memorization. HOTS include synthesizing, analyzing, reasoning, comprehending, application, and evaluation.

What are the 7 cognitive psychology? Cognitive psychology is the scientific study of mental processes such as attention, language use, memory, perception, problem solving, creativity, and reasoning.

What is the latest edition of Java the complete reference?

Is Java the complete reference worth it? Top reviews from India It is an awesome book to understand the Core as well as Advanced concepts fully. Every concept has been explained with precision and a reader friendly way therefore it makes it very easy for the reader to understand Java.

What are the three types of Java Edition? Java Standard Edition (Java SE) Java Enterprise Edition (Java EE) Java Micro Edition (Java ME)

Which Java version is the latest? Java Platform, Standard Edition 22 Java SE 22.0.2 is the latest release of Java SE Platform. Oracle strongly recommends that all Java SE users upgrade to this release.

Is Java no longer needed? There really isn't anything that Java can't be used for. Second, Java is well supported by both major development platforms – Android and Windows. This means that if you're developing for either of these platforms, you can be confident that there will be good support for Java.

How many days does it take to complete Java? The learning duration for Java varies, with beginners expected to learn the programming language in roughly nine months, while those with existing coding experience can grasp it in one to three months.

What is the point of references in Java? A reference is information about the location of object data. So the value of the variable is set to be a reference, i.e. knowledge about the location of related object data. The image above also reveals

that strings — the name of our example person, for instance — are objects, too.

Types of Hacking Attacks and Their Countermeasures

Q: What are the common types of hacking attacks? **A:** Hacking attacks can vary in sophistication, but some of the most prevalent types include:

- **Malware attacks:** Malicious software (malware) is installed on a device to cause damage, steal data, or disrupt operations.
- **Phishing attacks:** Scammers send fake emails or text messages impersonating legitimate organizations to trick victims into revealing sensitive information.
- **DDoS attacks:** Distributed denial-of-service (DDoS) attacks overwhelm a website or server with excessive traffic, causing it to become unavailable.
- **Man-in-the-middle attacks:** Hackers intercept communications between two parties and relay fake or altered information, often to steal credentials or sensitive data.
- **SQL injection attacks:** Hackers exploit vulnerabilities in database systems to gain unauthorized access to confidential information.

Q: What are the key countermeasures to these attacks?

A: To protect against hacking attacks, organizations and individuals should implement a comprehensive security strategy that includes:

- **Software updates:** Regularly updating software and systems with security patches can help prevent malware infections and other vulnerabilities.
- **Strong passwords:** Using strong and unique passwords for all accounts is essential to prevent unauthorized access.
- **Network monitoring:** Monitoring network traffic for suspicious activity can help detect and prevent attacks in real-time.
- **Anti-phishing measures:** Using email filters, examining URLs carefully, and being aware of phishing scams can help protect against phishing attacks.

- **Firewall and intrusion detection systems:** Implementing firewalls and intrusion detection systems (IDS) can block unauthorized access and monitor for suspicious activity.

Q: What are some additional best practices to prevent hacking attacks?

A: In addition to the countermeasures mentioned above, individuals and organizations should also consider:

- **Regular security awareness training:** Educating employees and users about hacking threats and best practices can help prevent them from falling victim to attacks.
- **Cloud security:** Adopting cloud-based security services can provide additional protection against hacking attempts.
- **Multi-factor authentication:** Using multi-factor authentication (MFA) adds an extra layer of security by requiring multiple forms of identification for account access.
- **Vulnerability assessment:** Conducting regular vulnerability assessments can help identify and fix weaknesses that could be exploited by hackers.

Q: How can I protect myself from social engineering attacks?

A: Social engineering attacks rely on human error and manipulation. To protect against these attacks, individuals should:

- **Be cautious of unsolicited communications:** Phishing attacks often come in the form of emails or text messages from unknown senders.
- **Verify the sender's identity:** Always check the sender's email address or phone number to ensure it's legitimate.
- **Never click on suspicious links or open attachments:** Phishing emails often contain malicious links or attachments that can lead to malware infections.
- **Be aware of scams:** Be skeptical of any unsolicited offers or requests for sensitive information.

Q: What should I do if I suspect a hacking attack?

A: If you suspect a hacking attack, it's important to take immediate action:

- **Change your passwords:** Change your passwords for all accounts that may have been compromised.
- **Notify your service providers:** Inform your email provider, bank, or other service providers about the suspected attack.
- **Disconnect from the network:** If possible, disconnect the affected device from the network to prevent further damage.
- **Seek professional help:** If you're not sure how to respond to the attack, contact a cybersecurity expert or your IT department.

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