

Associated Locksmiths of America (ALOA) Practice Test (Sample)

Study Guide



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SAMPLE

Questions

SAMPLE

- 1. In a master key system, how do sectionals prevent key duplication?**
 - A. By limiting the types of keys that can be created**
 - B. By blocking the use of interchangeable key types**
 - C. By requiring a master key with specific cuts**
 - D. By providing a unique combination for each lock**
- 2. What is the name given to unique pins used in Mul-t-lock high security cylinders?**
 - A. Double pins**
 - B. Unique pins**
 - C. Specialty pins**
 - D. A pin within a pin**
- 3. What is the characteristic of a continuous duty electric strike?**
 - A. It is only meant to be used for 5-10 seconds at a time**
 - B. It remains energized without damage to the coil even for 24 hours a day**
 - C. It closes when energized**
 - D. It consumes a low amount of current**
- 4. What is the minimum stack height for Medeco Biaxial locks?**
 - A. 0.480**
 - B. 0.499**
 - C. 0.510**
 - D. 0.525**
- 5. What is one characteristic of a parallel loop in alarm systems?**
 - A. Consists of a single wire**
 - B. Uses multiple wires to create redundancy**
 - C. Alarms when there is no resistance**
 - D. Operates on wireless signals only**

- 6. When using a flexible cable from the hinge side of a door, what is it typically used for?**
- A. Locking the door for safety**
 - B. Connecting control loop wiring to locks**
 - C. Providing a power source to the hinges**
 - D. Reinforcing the door structure**
- 7. What does broaching refer to in the context of a key and lock?**
- A. The process of cutting pins to size**
 - B. The alignment of the key as it enters the keyway**
 - C. The design of the key grooves**
 - D. The installation method for locks**
- 8. In locksmithing, depth of a key refers to what?**
- A. Measurement from the key head to the bottom of the key**
 - B. Thickness of the key material**
 - C. Measurement from the bottom of the key to the bottom-dead-center of each cut**
 - D. General wear of the key over time**
- 9. What operation occurs when an electromagnetic lock is energized?**
- A. The door is automatically opened**
 - B. The door remains locked and current flows to hold the armature**
 - C. The armature is free to move**
 - D. The lock mechanism becomes faulty**
- 10. What is a two-step progression in a master key system?**
- A. A system with one key for two locks**
 - B. A master key system that moves in increments of 2**
 - C. A method to immediately open all locks**
 - D. A key duplication process**

Answers

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1. D
2. D
3. B
4. B
5. B
6. B
7. B
8. C
9. B
10. B

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Explanations

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1. In a master key system, how do sectionals prevent key duplication?

- A. By limiting the types of keys that can be created**
- B. By blocking the use of interchangeable key types**
- C. By requiring a master key with specific cuts**
- D. By providing a unique combination for each lock**

In a master key system, sectionals prevent key duplication primarily by providing a unique combination for each lock. This unique combination means that each lock within the system operates on a specific configuration of pins or wafers, which are tailored to accept only its designated key. Because the key is designed to match the unique internal structure of the lock, it cannot easily be duplicated without access to that specific information. This design feature inherently limits the ability to create unauthorized copies of keys, since an identical key cannot be simply replicated without knowing the precise cuts or combination used within that lock. Each sectional is carefully crafted to ensure that even slight variations in the key will prevent it from functioning in other locks, thus enhancing security and control over access. While the other answer choices touch on aspects related to key management and security, they do not directly relate to the core mechanism that makes sectionals effective against key duplication in a master key system.

2. What is the name given to unique pins used in Mul-t-lock high security cylinders?

- A. Double pins**
- B. Unique pins**
- C. Specialty pins**
- D. A pin within a pin**

In Mul-t-lock high security cylinders, the term "a pin within a pin" refers to the innovative and advanced design of their locking mechanism. This system utilizes a specific construction where one pin is nested within another. This two-layered pin structure significantly increases the complexity of the lock, providing enhanced security against picking and unauthorized access. The pin within a pin design adds an additional element that traditional pin tumblers do not have, making it much harder for an intruder to manipulate the lock successfully. This mechanism works by requiring the correct alignment of both the outer and inner pins, which creates a higher level of security compared to standard pin configurations. Overall, this unique design is a key aspect of Mul-t-lock's approach to producing high-security locks that are difficult to bypass.

3. What is the characteristic of a continuous duty electric strike?

- A. It is only meant to be used for 5-10 seconds at a time**
- B. It remains energized without damage to the coil even for 24 hours a day**
- C. It closes when energized**
- D. It consumes a low amount of current**

A continuous duty electric strike is designed to remain energized for extended periods without sustaining damage to its coil. This characteristic allows it to be used in applications where the locking mechanism needs to be held open for long durations, such as in secure access control systems where doors may need to remain unlocked for extended times. Its ability to function continuously helps ensure that security measures are reliable and can operate without interruption. In contrast, alternatives such as only being used for short bursts, closing when energized, or consuming low current do not accurately describe the primary function and reliability attributes of a continuous duty electric strike. The defining feature is its capacity to handle continuous current, making it suitable for environments where extended lock operation is necessary.

4. What is the minimum stack height for Medeco Biaxial locks?

- A. 0.480**
- B. 0.499**
- C. 0.510**
- D. 0.525**

The minimum stack height for Medeco Biaxial locks is 0.499 inches. This specification is vital as it ensures that the lock functions correctly and securely. Medeco Biaxial locks operate on a unique design that includes both rotational and vertical pin mechanisms, providing a higher level of security compared to traditional pin tumbler locks. Understanding the minimum stack height is essential for lock installation and repair technicians, as using parts outside of the specified dimensions could compromise the lock's integrity and performance. Additionally, maintaining the correct stack height ensures compatibility with the lock's design, allowing it to engage properly with its associated mechanisms, such as the cylinder and keyway. Having accurate knowledge of these specifications is critical for anyone involved in locksmithing or security professions.

5. What is one characteristic of a parallel loop in alarm systems?

- A. Consists of a single wire**
- B. Uses multiple wires to create redundancy**
- C. Alarms when there is no resistance**
- D. Operates on wireless signals only**

A parallel loop in alarm systems is characterized by its use of multiple wires that create redundancy. This design ensures that if one path in the loop fails or is interrupted, the remaining paths can still maintain the circuit's integrity and functionality. This redundancy is crucial for maintaining alarm system reliability, as it enhances the system's fault tolerance. For example, in a security system, if one sensor in the parallel loop becomes faulty, the other sensors can still trigger the alarm, ensuring that the overall system remains operational. This characteristic of parallel loops enhances the system's ability to detect breaches and reduces the likelihood of false security due to a single point of failure. Contrarily, options related to a single wire, alarms triggering without resistance, or operating solely on wireless signals do not accurately define the fundamental feature of a parallel loop, which is specifically its redundancy through multiple wiring paths.

6. When using a flexible cable from the hinge side of a door, what is it typically used for?

- A. Locking the door for safety**
- B. Connecting control loop wiring to locks**
- C. Providing a power source to the hinges**
- D. Reinforcing the door structure**

The use of a flexible cable from the hinge side of a door is predominantly for connecting control loop wiring to locks. This is crucial in systems like electronic locks or access control systems, where wires need to run from the door frame to the locking mechanism in the door. The flexibility of the cable allows for smooth operation as the door opens and closes, ensuring that the connections do not break and that the locking mechanism functions reliably. This arrangement is essential in maintaining the integrity of the control loop, which is often used for monitoring the status of the door, triggering alarms, or operating electronic access devices. The cable must be capable of accommodating the movement of the door without compromising functionality or safety, making its role vital in the overall operation of electronic locking systems.

7. What does broaching refer to in the context of a key and lock?

- A. The process of cutting pins to size**
- B. The alignment of the key as it enters the keyway**
- C. The design of the key grooves**
- D. The installation method for locks**

In the context of a key and lock, broaching refers to the process of aligning the key as it enters the keyway. This alignment is crucial for the proper function of the lock, as a well-aligned key will smoothly engage the pins inside the lock cylinder. The broaching process often involves shaping the internal surfaces of the lock cylinder to match the cut of the key accurately, allowing for an efficient and secure fit. This choice highlights the importance of key design and how it interacts with the lock mechanism. When the key is broached correctly, it minimizes wear on both the key and the lock, ensuring longevity and reliability. A misaligned key can lead to difficulty in turning the lock or even damage to the internal components. Understanding this process is fundamental for locksmiths in ensuring that keys and locks work properly together.

8. In locksmithing, depth of a key refers to what?

- A. Measurement from the key head to the bottom of the key**
- B. Thickness of the key material**
- C. Measurement from the bottom of the key to the bottom-dead-center of each cut**
- D. General wear of the key over time**

The depth of a key specifically refers to the measurement from the bottom of the key to the bottom-dead-center of each cut. This measurement is crucial in locksmithing as it determines how deeply the cuts in the key will need to be made to correspond with the pins of a lock cylinder. Proper depth ensures that the key can engage the pins correctly, allowing the locking mechanism to operate smoothly. Understanding key depths is essential for creating or duplicating keys that function properly within their corresponding locks. When the cuts are at the correct depths, the key will align with the pins or tumblers at the necessary heights, facilitating ease of entry and ensuring security. Recognizing this aspect of key design is fundamental knowledge for any locksmith. The other options refer to different aspects of keys and locksmithing that do not define the concept of depth. For example, the measurement from the key head to the bottom of the key pertains more to overall length, while the thickness of the key material relates to the physical structure. General wear refers to how a key might degrade over time, but this is unrelated to the specific measurement of depth in the context of lock operation and key creation.

9. What operation occurs when an electromagnetic lock is energized?

- A. The door is automatically opened**
- B. The door remains locked and current flows to hold the armature**
- C. The armature is free to move**
- D. The lock mechanism becomes faulty**

When an electromagnetic lock is energized, the correct operation is that the door remains locked, and the current flows to hold the armature. This type of lock functions by using an electromagnet to create a strong magnetic field that attracts the armature plate attached to the door. When power is supplied, the magnetic force holds the armature tightly against the electromagnet, effectively keeping the door secured and closed. Understanding the mechanics behind this operation is crucial. The flow of current to the electromagnetic lock generates an attractive force that prevents the armature from moving, thereby maintaining the locked status of the door. This design ensures a reliable locking mechanism that is not only secure but also capable of being released when power is cut, allowing for quick exit in emergencies or when access is required. The other operations listed do not accurately depict the function of an energized electromagnetic lock. When the lock is energized, it certainly does not open by itself, nor does the armature become free to move, as both would compromise the security that the electromagnetic lock is designed to provide. Additionally, the mechanism does not inherently become faulty when energized, as it is designed to operate under these conditions. Understanding these principles helps in the proper application and troubleshooting of electromagnetic locking systems.

10. What is a two-step progression in a master key system?

- A. A system with one key for two locks**
- B. A master key system that moves in increments of 2**
- C. A method to immediately open all locks**
- D. A key duplication process**

A two-step progression in a master key system refers to a design where the keying system is structured so that the master key operates in increments of two levels. This means that each master key can control multiple locks in a controlled and hierarchical manner, allowing for greater flexibility and security. In this setup, as you progress through the levels of keys, each subsequent key operates two steps higher than the previous one. This systematic design facilitates the creation of complex keying arrangements, where certain keys can open specific locks while others can manage broader access. This organized approach reduces the chance of unauthorized access while allowing for efficient management of access credentials. Other options do not capture the essence of what a two-step progression entails. For example, a system with one key for two locks suggests simplicity and a lack of hierarchy, while a method to immediately open all locks implies unrestricted access, which is contrary to the purpose of a master key system. Similarly, a key duplication process focuses on replication rather than the structured access that defines a two-step progression. Hence, the identification of option B as representative of a two-step progression is warranted based on its structured approach in managing access levels.