

# MTA Mobility And Device Fundamentals Practice Test (Sample)

## Study Guide



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**SAMPLE**

## **Questions**

- 1. Which term describes temporary hair loss during the telogen phase?**
  - A. Growth spurt**
  - B. Shedding**
  - C. Follicle collapse**
  - D. Hair thinning**
- 2. Which procedure involves correcting drooping eyelids?**
  - A. Facelift**
  - B. Brow lift**
  - C. Blepharoplasty**
  - D. Rhinoplasty**
- 3. One function of the skeletal system is to produce which type of blood cells?**
  - A. White and red blood cells**
  - B. Platelets**
  - C. Stem cells**
  - D. Immune cells**
- 4. Which of the following are considered appendages of the skin?**
  - A. Blood vessels**
  - B. Hair, nails, and sweat glands**
  - C. Connective tissues**
  - D. Muscles**
- 5. What is the role of collagen in the skin?**
  - A. Regulates temperature**
  - B. Provides structural support**
  - C. Detoxifies skin**
  - D. Promotes oil production**

- 6. What color appears under a Wood's lamp for oily or acne-prone skin?**
- A. Purple**
  - B. Red**
  - C. Orange**
  - D. White**
- 7. What is recognized as the highest level of decontamination?**
- A. Cleaning**
  - B. Disinfection**
  - C. Sterilization**
  - D. Sanitization**
- 8. Which hair growth phase is marked by transitional activities?**
- A. Anagen**
  - B. Telogen**
  - C. Catagen**
  - D. Exogen**
- 9. What is the outermost layer of the skin called?**
- A. Dermis**
  - B. Hypodermis**
  - C. Dermatome**
  - D. Epidermis**
- 10. What effect does nicotine have on blood vessels?**
- A. Dilates blood vessels**
  - B. Contracts blood vessels**
  - C. Thickens blood**
  - D. Increases blood flow**

## **Answers**

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

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## **Explanations**

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**1. Which term describes temporary hair loss during the telogen phase?**

- A. Growth spurt**
- B. Shedding**
- C. Follicle collapse**
- D. Hair thinning**

The term that best describes temporary hair loss during the telogen phase is "shedding." The telogen phase is the final phase of the hair growth cycle, during which the hair is fully formed but is not actively growing. During this phase, hair naturally falls out and is replaced by new hair as part of the cyclical process. This shedding is a normal part of hair growth, and it typically occurs without any underlying health issues. In contrast, the other terms do not accurately reflect the process occurring during the telogen phase. A growth spurt refers to an increase in growth speed during the anagen phase of hair growth, where hair is actively growing. Follicle collapse suggests a more acute condition that implies a problem with the hair follicle itself, rather than natural hair shedding. Hair thinning may reference a reduction in hair density, which can occur for various reasons and is not specifically tied to the telogen stage. Thus, shedding is the most appropriate term to describe this normal occurrence during the telogen phase.

**2. Which procedure involves correcting drooping eyelids?**

- A. Facelift**
- B. Brow lift**
- C. Blepharoplasty**
- D. Rhinoplasty**

The procedure that specifically targets drooping eyelids is blepharoplasty, which is designed to correct issues related to the eyelids, including excess skin, fat, and muscle that can cause the eyelids to sag or appear tired. This surgical procedure can be performed on both the upper and lower eyelids, improving the overall appearance of the eyes and contributing to a more youthful look. Other procedures mentioned, such as a facelift, brow lift, and rhinoplasty, serve different purposes. A facelift primarily addresses sagging in the facial skin and underlying structures, to reduce wrinkles and restore a more youthful contour to the face. A brow lift focuses on the forehead and eyebrows, lifting them to reduce forehead wrinkles and improve the appearance of the area above the eyes, but does not specifically address the eyelids. Rhinoplasty is concerned with reshaping the nose, which is unrelated to eyelid correction. Thus, blepharoplasty is uniquely suited for correcting drooping eyelids.

**3. One function of the skeletal system is to produce which type of blood cells?**

**A. White and red blood cells**

**B. Platelets**

**C. Stem cells**

**D. Immune cells**

The skeletal system plays a crucial role in the production of blood cells, particularly in the bone marrow found within certain bones. This process is known as hematopoiesis. The bone marrow is responsible for generating both red blood cells, which are essential for transporting oxygen throughout the body, and white blood cells, which are integral to the immune response and help the body fight infections. Thus, the correct response reflects the comprehensive functionality of the skeletal system in the production of both types of blood cells—highlighting its importance not just in providing structure and support but also in contributing actively to the circulatory and immune systems.

**4. Which of the following are considered appendages of the skin?**

**A. Blood vessels**

**B. Hair, nails, and sweat glands**

**C. Connective tissues**

**D. Muscles**

Hair, nails, and sweat glands are classified as appendages of the skin because they originate from the dermis, which is the skin's inner layer. These structures are vital for a variety of functions: hair provides insulation and protection, nails protect the tips of fingers and toes, and sweat glands play a critical role in thermoregulation and excretion. Each of these appendages has a specific purpose that contributes to the overall health and functionality of the skin as an organ. Blood vessels, while crucial for supplying nutrients and oxygen to the skin and removing waste products, are not considered appendages. Instead, they are part of the vascular system supporting the skin's functions. Connective tissues provide structure and support but are not classified as skin appendages themselves. Muscles, particularly those associated with the skin (such as arrector pili, which cause hair to stand up), are also not considered appendages but rather part of the muscular and integumentary systems.

**5. What is the role of collagen in the skin?**

- A. Regulates temperature**
- B. Provides structural support**
- C. Detoxifies skin**
- D. Promotes oil production**

Collagen plays a crucial role in providing structural support to the skin. It is a protein that acts as a scaffold, giving the skin strength, elasticity, and durability. This support is essential for maintaining the skin's shape and resilience against environmental factors and physical stress. As we age, collagen production decreases, leading to signs of aging such as sagging and wrinkles. The other options pertain to different functions that do not directly involve collagen. While regulating temperature is managed by blood vessels and sweat glands, detoxification processes are handled by the liver and kidneys, not the skin itself. Oil production is primarily the function of sebaceous glands, which are not influenced by collagen. Understanding collagen's role emphasizes its importance in maintaining skin integrity and appearance.

**6. What color appears under a Wood's lamp for oily or acne-prone skin?**

- A. Purple**
- B. Red**
- C. Orange**
- D. White**

When examining skin under a Wood's lamp, various colors can indicate different skin conditions or characteristics. For oily or acne-prone skin, the key observation is that it typically appears as orange under the Wood's lamp. This color signifies the presence of excess oil and can also indicate areas with potential bacteria or follicular blockages, which are common in acne-prone skin. In contrast, the other colors observed under a Wood's lamp serve different purposes. For example, purple can indicate certain types of pigmentation or aging skin, red may suggest conditions like infections or inflammation, and white often refers to dehydrated skin or the presence of certain pathogens. Each color gives a different insight into the skin's health, but for oily and acne-prone skin specifically, orange is the hallmark color to look for. This understanding helps in assessing skin conditions and determining appropriate treatment strategies.

**7. What is recognized as the highest level of decontamination?**

- A. Cleaning**
- B. Disinfection**
- C. Sterilization**
- D. Sanitization**

Sterilization is recognized as the highest level of decontamination because it refers to the complete elimination or destruction of all forms of microbial life, including bacteria, viruses, fungi, and spores. This process typically involves the use of methods such as autoclaving or chemicals that achieve a 100% reduction of pathogenic microorganisms. In comparison, cleaning involves the removal of dirt, debris, and impurities, but does not necessarily kill microorganisms. Disinfection is a step below sterilization, as it is designed to reduce or eliminate harmful microorganisms on surfaces but may not destroy all spores. Sanitization refers to processes intended to reduce the number of microorganisms to safe levels, which is less rigorous than disinfection and sterilization. Thus, sterilization encompasses the most comprehensive measure to ensure that an object or environment is free from all infectious agents, solidifying its status as the highest level of decontamination.

**8. Which hair growth phase is marked by transitional activities?**

- A. Anagen**
- B. Telogen**
- C. Catagen**
- D. Exogen**

The hair growth phase characterized by transitional activities is the catagen phase. During this stage, which follows the anagen phase, the hair follicle begins to shrink and the hair stops actively growing. This transitional phase lasts for a few weeks, typically around two to three weeks, and marks the end of the anagen phase where the hair is actively growing. In the catagen phase, the hair follicle detaches from the dermal papilla, which is essential for hair growth. The hair may begin to lose its connection to the surrounding cells responsible for supplying nutrients and promoting further growth. This phase is crucial because it prepares the hair for the next phase, the telogen phase, where the hair eventually sheds. Understanding the catagen phase is important because it signifies a natural part of the hair cycle, during which changes occur that lead to the hair's eventual shedding in the subsequent telogen phase. This process is a normal part of hair growth and shedding in the life cycle of hair.

## 9. What is the outermost layer of the skin called?

- A. Dermis
- B. Hypodermis
- C. Dermatome
- D. Epidermis**

The outermost layer of the skin is known as the epidermis. This layer serves as the first line of defense against environmental factors, including pathogens, chemicals, and physical abrasions. It plays a crucial role in protecting underlying tissues and maintaining the skin's hydration. The epidermis contains several sublayers, with the topmost being composed of dead skin cells that are continuously shed and replaced. This layer also houses melanocytes, which produce melanin, contributing to skin color and protection against UV radiation. Understanding the structure and function of the epidermis is fundamental in fields related to health, skincare, and dermatology, as it is vital for overall skin health and plays an essential role in the body's barrier functions.

## 10. What effect does nicotine have on blood vessels?

- A. Dilates blood vessels
- B. Contracts blood vessels**
- C. Thickens blood
- D. Increases blood flow

Nicotine has a vasoconstrictive effect, meaning it causes blood vessels to contract. When nicotine enters the body, it stimulates the release of certain neurotransmitters like norepinephrine. This neurotransmitter triggers the constriction of blood vessels, which can lead to an increase in blood pressure. The contraction of blood vessels limits the space through which blood can flow, resulting in reduced blood flow to various parts of the body. This physiological response can contribute to various cardiovascular issues, as the constriction of vessels means the heart has to work harder to pump blood, potentially leading to complications over time. Understanding the effects of nicotine on blood vessels is crucial, especially in discussions about smoking and cardiovascular health.