

# New York Hearing Dispenser Practice Exam (Sample)

## Study Guide



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## **Questions**

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- 1. Which condition is least likely to contribute to presbycusis?**
  - A. Age-related changes**
  - B. Noise trauma**
  - C. Genetic predisposition**
  - D. Allergies**
- 2. What is the purpose of the Speech Reception Threshold (SRT) test?**
  - A. To determine the lowest level at which a client can hear**
  - B. To assess the clarity of speech**
  - C. To determine the lowest level at which a client can understand speech**
  - D. To evaluate the middle ear function**
- 3. Which hearing aid feature can help users connect to mobile devices?**
  - A. Noise-cancellation technology**
  - B. Directional microphones**
  - C. Bluetooth connectivity**
  - D. Rechargeable batteries**
- 4. What is another name for the ear canal?**
  - A. External auditory meatus**
  - B. Mastoid process**
  - C. Auditory bulla**
  - D. Inner ear structure**
- 5. What can cause central deafness?**
  - A. Ear infection**
  - B. Noise exposure**
  - C. Stroke or arteriosclerosis**
  - D. Genetic factors**

- 6. What most accurately describes the term 'headband' in hearing aid devices?**
- A. A component that connects to the power supply**
  - B. Used for securing the hearing aid in place**
  - C. An accessory for comfort padding**
  - D. A visual indicator of battery status**
- 7. Which of the following is considered an outer part of the ear?**
- A. Helix**
  - B. Stapes**
  - C. Cochlea**
  - D. Oval window**
- 8. What is measured in watts in the context of hearing?**
- A. Intensity level (IL)**
  - B. Pressure level (PL)**
  - C. Decibel level (dB)**
  - D. Dynamic range (DR)**
- 9. What is the term for a wavelength that does not repeat and produces noise?**
- A. Periodic wave**
  - B. Fundamental**
  - C. Harmonic**
  - D. Complex wave**
- 10. What is the MCL for normal hearing in dB SPL?**
- A. 55 dB SPL**
  - B. 60 dB SPL**
  - C. 65 dB SPL**
  - D. 70 dB SPL**

## **Answers**

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

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## **Explanations**

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**1. Which condition is least likely to contribute to presbycusis?**

- A. Age-related changes**
- B. Noise trauma**
- C. Genetic predisposition**
- D. Allergies**

Presbycusis is the gradual loss of hearing that occurs as people age, and it is primarily influenced by age-related changes in the auditory system. This can include degeneration of hair cells in the inner ear, changes in the auditory nerve, and overall decline in the central processing of sound. Factors such as noise trauma, genetic predisposition, and other environmental factors can exacerbate or contribute to hearing loss, but they are not intrinsic to the aging process itself. Allergies, while they can lead to temporary hearing issues through conditions like eustachian tube dysfunction or fluid buildup in the ears, do not have a direct or significant impact on the development of presbycusis. Unlike the other options, which relate to inherent biological and environmental factors impacting long-term hearing health, allergies do not contribute to the cumulative age-related degeneration of hearing. Therefore, it is least likely that allergies would play a role in the condition of presbycusis compared to the other listed factors.

**2. What is the purpose of the Speech Reception Threshold (SRT) test?**

- A. To determine the lowest level at which a client can hear**
- B. To assess the clarity of speech**
- C. To determine the lowest level at which a client can understand speech**
- D. To evaluate the middle ear function**

The Speech Reception Threshold (SRT) test is designed specifically to determine the lowest level at which a client can understand speech. This threshold is critical in audiology as it helps to identify the softest volume at which a person can correctly repeat back words or phrases presented at various intensities. Understanding this threshold is essential for proper fitting and adjustment of hearing aids, as it informs the audiologist about the client's hearing capabilities in relation to speech comprehension. While the other options touch on aspects of hearing assessment, they do not accurately capture the specific purpose of the SRT test. For example, determining the lowest level at which a client can hear, while related, is more aligned with pure tone audiometry rather than the comprehension aspect that SRT focuses on. Assessing the clarity of speech generally involves different types of evaluations that may look at speech discrimination rather than reception thresholds. Evaluating middle ear function is addressed through tympanometry and other tests, distinctly separate from the SRT's focus on understanding spoken language at varying volume levels.

### **3. Which hearing aid feature can help users connect to mobile devices?**

- A. Noise-cancellation technology**
- B. Directional microphones**
- C. Bluetooth connectivity**
- D. Rechargeable batteries**

Bluetooth connectivity is the feature that allows hearing aids to connect to mobile devices. This technology facilitates direct streaming of audio signals from smartphones, tablets, and other Bluetooth-enabled devices to the hearing aids, enhancing the user's experience by providing clearer sound and greater convenience. Through Bluetooth, users can take phone calls, listen to music, and receive notifications directly in their hearing aids without needing additional accessories. Other features are important for different aspects of hearing aid performance but do not provide the same level of connectivity. For example, noise-cancellation technology primarily focuses on reducing background noise to improve speech clarity in various environments. Directional microphones enhance sound reception from specific directions, allowing users to focus on a conversation while minimizing surrounding sounds. Rechargeable batteries do offer the convenience of not needing to replace batteries frequently, but they do not influence connectivity with mobile devices.

### **4. What is another name for the ear canal?**

- A. External auditory meatus**
- B. Mastoid process**
- C. Auditory bulla**
- D. Inner ear structure**

The ear canal is scientifically referred to as the external auditory meatus. This term describes the tubular pathway that leads from the outer ear to the eardrum (tympanic membrane). The external auditory meatus plays a critical role in directing sound waves toward the eardrum for the process of hearing. Its structure is specifically designed to resonate sound waves and to protect the inner ear from foreign objects and infections. The other terms listed refer to different anatomical features in the ear or surrounding areas. The mastoid process is a bony prominence located behind the ear, the auditory bulla is a bony structure that houses the middle ear in some animals, and the inner ear structures include complex components like the cochlea and vestibular system, which are involved in hearing and balance but are not synonymous with the ear canal itself. This highlights the importance of understanding specific anatomical terms and their correct application in the context of audiology and hearing anatomy.

## 5. What can cause central deafness?

- A. Ear infection
- B. Noise exposure
- C. Stroke or arteriosclerosis**
- D. Genetic factors

Central deafness occurs when there is an issue within the central nervous system pathways responsible for processing auditory information, rather than in the peripheral structures of the ear itself. This condition can result from disruptions in the auditory pathways in the brain, which influences how sound is perceived despite the outer, middle, and inner ear functioning normally. Stroke or arteriosclerosis can lead to central deafness because these conditions impair blood flow to regions of the brain that are crucial for hearing. When these areas are not adequately supplied with oxygen and nutrients due to a stroke or narrowed blood vessels, the neural structures can sustain damage. This damage may hinder the brain's ability to interpret auditory signals, resulting in a loss of hearing that is termed central deafness. In contrast, ear infections, noise exposure, and genetic factors typically affect the peripheral hearing mechanism rather than the central auditory pathways. Ear infections can cause conductive hearing loss by obstructing sound transmission, while noise exposure usually leads to damage in the hair cells of the cochlea, resulting in sensorineural hearing loss. Genetic factors may predispose individuals to various types of hearing loss but do not directly implicate the central processing areas in the brain. Thus, the central deafness associated with stroke or arteriosclerosis highlights the significance of

## 6. What most accurately describes the term 'headband' in hearing aid devices?

- A. A component that connects to the power supply
- B. Used for securing the hearing aid in place**
- C. An accessory for comfort padding
- D. A visual indicator of battery status

The term 'headband' in hearing aid devices most accurately refers to its function of securing the hearing aid in place. This component is designed to hold the hearing aid firmly on the user's head, particularly for the types of hearing aids that might require additional support for stability. A well-fitted headband ensures that the device remains in the correct position for optimal performance and comfort during use. In contrast, while comfort padding, battery indicators, and connections to power supplies are relevant to hearing aid design, they do not represent the primary function of the headband itself. The key role of the headband in maintaining the positioning of the hearing aid makes it essential for users who may require a secure fit while engaging in various activities.

**7. Which of the following is considered an outer part of the ear?**

**A. Helix**

**B. Stapes**

**C. Cochlea**

**D. Oval window**

The helix is considered an outer part of the ear because it refers to the prominent, folded rim of the ear's cartilage, which forms the outer ear structure known as the pinna or auricle. This outer part serves an important role in capturing sound waves and directing them into the ear canal toward the eardrum, allowing for the perception of sound. In contrast, the stapes is one of the small bones located in the middle ear, playing a role in transmitting sound vibrations to the inner ear. The cochlea is part of the inner ear, responsible for converting sound vibrations into neural signals for the brain. The oval window, also part of the inner ear, is the membrane-covered opening that leads from the middle ear to the cochlea and plays a crucial role in the hearing process but is not part of the outer ear. Understanding these distinctions helps clarify the anatomy of the ear and its components.

**8. What is measured in watts in the context of hearing?**

**A. Intensity level (IL)**

**B. Pressure level (PL)**

**C. Decibel level (dB)**

**D. Dynamic range (DR)**

In the context of hearing, intensity level (IL) is measured in watts. This measurement refers to the power of the sound waveform and correlates to the energy transmitted through the sound waves. Understanding intensity is critical in audiology and hearing science, as it relates directly to our perception of loudness. Hearing measurements typically consider power levels in terms of watts, which quantify the actual energy output of sound sources. This allows professionals to assess and compare the loudness of different sounds and their potential impact on hearing. It's essential for audiologists and hearing dispensers to utilize this measurement both in creating sound environments and when fitting hearing aids to ensure optimal performance and comfort for their clients. The other options focus on different aspects of sound measurement. Pressure level (PL), for example, refers to the sound pressure measured in pascals but does not directly quantify energy in watts. Decibel level (dB) is a logarithmic unit used to express the ratio between two values, often for sound intensity or pressure, but it's a relative measure rather than a direct measurement of energy. Dynamic range (DR) refers to the range between the faintest and loudest sounds that can be perceived, rather than a power measurement.

**9. What is the term for a wavelength that does not repeat and produces noise?**

- A. Periodic wave**
- B. Fundamental**
- C. Harmonic**
- D. Complex wave**

The term that describes a wavelength that does not repeat and produces noise is a complex wave. Complex waves consist of multiple frequencies and do not have a regular pattern, which is why they are often associated with noise. In contrast, a periodic wave has a consistent repeating pattern, which aligns with musical notes or tones rather than noise. The fundamental refers to the lowest frequency of a wave, typically associated with musical pitch rather than noise, while harmonics are integer multiples of the fundamental frequency and also contribute to a tonal quality. Therefore, the best descriptor for a non-repeating waveform typically associated with noise is complex wave, highlighting the intricacies of sound waves that do not conform to a singular repeating rhythm.

**10. What is the MCL for normal hearing in dB SPL?**

- A. 55 dB SPL**
- B. 60 dB SPL**
- C. 65 dB SPL**
- D. 70 dB SPL**

The MCL, or Most Comfortable Level, for normal hearing is recognized as being around 60 to 70 dB SPL depending on individual differences and the environment. The correct answer states that the MCL is 65 dB SPL, which falls within that typical range. Understanding the MCL is crucial for hearing dispensers and audiologists as it represents the sound pressure level at which a person perceives sound as most comfortable without fatigue. This level is significant when fitting hearing aids or recommending sound amplification, as it helps ensure that the amplification provided is not only adequate to assist with hearing but also pleasant for the user. In practice, clinicians use the MCL as a guideline to determine the settings for hearing devices, aiming for levels that enhance comprehension and communication while avoiding discomfort. Given that 65 dB SPL is the midpoint of the normal MCL range, it serves as an essential reference point in audiometric evaluations and hearing aid fittings.