

# Praxis Audiology Practice Test (Sample)

## Study Guide



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**SAMPLE**

## **Questions**

- 1. What does a "mixed hearing loss" indicate?**
  - A. Only sensorineural hearing loss is present**
  - B. Only conductive hearing loss is present**
  - C. A combination of both conductive and sensorineural hearing loss**
  - D. Hearing loss resulting from aging**
- 2. What frequency range does extended high frequency audiometry cover?**
  - A. 9000-16,000 Hz**
  - B. 4000-8000 Hz**
  - C. 15,000-25,000 Hz**
  - D. 900-1600 Hz**
- 3. Which of the following statements is correct regarding air-bone gaps when testing hearing?**
  - A. An air bone gap indicates a sensorineural hearing loss**
  - B. Matching BC and AC thresholds indicate sensorineural hearing loss**
  - C. An air bone gap means there is only conductive hearing loss**
  - D. Matching BC and AC thresholds indicate there is mixed loss**
- 4. Which unit is commonly used to measure sound intensity?**
  - A. Hertz (Hz)**
  - B. Volts (V)**
  - C. Decibels (dB)**
  - D. Watts (W)**
- 5. How often does a senior citizen receive treatment in the emergency room for a fall, according to the CDC?**
  - A. Every 23 minutes**
  - B. Every 57 seconds**
  - C. Every 18 seconds**
  - D. Every 16 minutes**

- 6. Which condition is most commonly associated with normal hearing?**
- A. Hyperacusis**
  - B. Diplacusis**
  - C. Presbycusis**
  - D. None of the above**
- 7. What is the role of trained hearing ear dogs for individuals who are hearing impaired?**
- A. They provide emotional support**
  - B. They alert to environmental sounds**
  - C. They assist in mobility**
  - D. They are mainly for companionship**
- 8. Approximately one out of how many babies born in the US has some kind of hearing problem?**
- A. 32**
  - B. 22**
  - C. 42**
  - D. 12**
- 9. What is the primary goal of cochlear implants?**
- A. To replace damaged hair cells in the cochlea**
  - B. To provide external amplification of sound**
  - C. To provide direct stimulation to the auditory nerve**
  - D. To improve hearing in noisy environments**
- 10. What is a key characteristic of speech sounds in relation to listener perception?**
- A. They are perceived in isolation**
  - B. They are understood equally regardless of context**
  - C. Individual phonemes can overlap**
  - D. They are always produced distinctly**

## **Answers**

SAMPLE

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

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## **Explanations**

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**1. What does a "mixed hearing loss" indicate?**

- A. Only sensorineural hearing loss is present**
- B. Only conductive hearing loss is present**
- C. A combination of both conductive and sensorineural hearing loss**
- D. Hearing loss resulting from aging**

Mixed hearing loss indicates a combination of both conductive and sensorineural hearing loss. This means that there are issues in both the outer or middle ear, contributing to conductive hearing loss, as well as problems in the inner ear or auditory nerve that result in sensorineural hearing loss. In practice, this can manifest as an individual experiencing the attenuating effects of conductive hearing loss, where sound does not effectively travel through the outer or middle ear, combined with the more complex effects of sensorineural loss, where there is damage to the cochlea or auditory pathways. Each component affects the individual's overall hearing ability and can complicate diagnosis and treatment. Understanding mixed hearing loss is vital for audiologists as it informs the approach to intervention. Treatment may involve amplifying sound to address conductive components while also managing the characteristics of sensorineural loss, which may involve the use of hearing aids or other assistive devices tailored to the individual's hearing profile.

**2. What frequency range does extended high frequency audiometry cover?**

- A. 9000-16,000 Hz**
- B. 4000-8000 Hz**
- C. 15,000-25,000 Hz**
- D. 900-1600 Hz**

Extended high frequency audiometry is a specific type of hearing test that measures hearing sensitivity at frequencies higher than those typically assessed in standard audiometry. The frequency range it covers is generally from 9000 Hz up to 20,000 Hz or even higher, with 9000-16,000 Hz being a commonly accepted segment for this testing. This specialized testing is particularly important for detecting high-frequency hearing loss, which can occur due to factors like noise exposure or ototoxic medications. It can provide valuable information about a person's auditory health and help in the early identification of hearing changes that may not be captured in conventional audiometry, which usually focuses on frequencies from 250 Hz to 8000 Hz. Options that fall outside this range, such as those focusing on lower frequencies or narrower bands, do not encompass the purpose or design of extended high frequency audiometry, which is specifically geared towards higher frequency sound perception.

**3. Which of the following statements is correct regarding air-bone gaps when testing hearing?**

- A. An air bone gap indicates a sensorineural hearing loss**
- B. Matching BC and AC thresholds indicate sensorineural hearing loss**
- C. An air bone gap means there is only conductive hearing loss**
- D. Matching BC and AC thresholds indicate there is mixed loss**

The statement asserting that matching bone conduction (BC) and air conduction (AC) thresholds indicate sensorineural hearing loss is correct because it reflects the mechanism of sound transmission through the auditory system. In cases of sensorineural hearing loss, both BC and AC thresholds are typically diminished to a similar degree, meaning there's no significant air-bone gap. This suggests that the issue lies within the inner ear or auditory nerve rather than in the outer or middle ear. When air conduction and bone conduction thresholds are equal or very close to each other, it indicates that the auditory pathway is intact from the cochlea to the auditory cortex, which is characteristic of sensorineural impairment. In contrast, an air-bone gap would suggest a discrepancy where AC hearing is poorer than BC hearing, typically indicative of conductive hearing loss. Thus, recognizing the relationship between AC and BC thresholds is essential for differentiating types of hearing losses accurately. The other statements contain inaccuracies related to the interpretation of air-bone gaps and the classification of hearing loss types.

**4. Which unit is commonly used to measure sound intensity?**

- A. Hertz (Hz)**
- B. Volts (V)**
- C. Decibels (dB)**
- D. Watts (W)**

Sound intensity is often measured in decibels (dB). The decibel scale is a logarithmic unit that expresses the ratio of a particular sound intensity to a reference sound intensity, typically considered to be the threshold of hearing. This measurement allows for a broad range of sound intensities to be represented in a compact format, as the human auditory system can perceive a vast range of sound levels. While Hertz is a unit of frequency that measures the number of cycles per second of a sound wave, volts measure electrical potential, and watts measure power, none of those units directly quantify sound intensity like decibels do. The use of decibels is particularly advantageous in audiology for assessing hearing levels, comparing sound levels, and understanding the potential impact of various sounds on hearing health, as it correlates well with human perception of loudness.

**5. How often does a senior citizen receive treatment in the emergency room for a fall, according to the CDC?**

- A. Every 23 minutes**
- B. Every 57 seconds**
- C. Every 18 seconds**
- D. Every 16 minutes**

The correct choice is significant because it highlights the alarming frequency with which older adults experience falls that necessitate emergency room treatment. According to the Centers for Disease Control and Prevention (CDC), a senior citizen receiving treatment for a fall every 18 seconds underscores the critical public health concern related to falls among the elderly population. Falls are a leading cause of injury and can significantly impact the life and wellbeing of seniors. This information is pivotal in raising awareness about fall prevention strategies, the need for safety modifications in homes, and the importance of community resources to support seniors in maintaining their independence and health. Understanding this statistic can also help in advocating for better healthcare resources and programs aimed at preventing falls in seniors.

**6. Which condition is most commonly associated with normal hearing?**

- A. Hyperacusis**
- B. Diplacusis**
- C. Presbycusis**
- D. None of the above**

Hyperacusis is a condition characterized by an increased sensitivity to certain frequencies and volume ranges of sound. Individuals with hyperacusis typically have normal hearing abilities in terms of sound detection thresholds but experience discomfort or pain at certain loudness levels. This makes hyperacusis most commonly associated with individuals who can hear normally in quiet environments but react unusually to specific sounds. In contrast, diplacusis refers to the perception of two different pitches or frequencies when a single sound is presented. This condition is more often associated with hearing loss or issues in the auditory processing system. Presbycusis, which is age-related hearing loss, generally involves a gradual decline in hearing sensitivity, particularly in the higher frequency ranges, making it associated with hearing impairment rather than normal hearing. Choosing "None of the above" implies that none of the listed conditions could be linked to normal hearing, which does not account for hyperacusis's unique relationship with normal hearing thresholds. Therefore, hyperacusis stands out as the condition most associated with normal hearing despite its distinct sensitivity issue.

**7. What is the role of trained hearing ear dogs for individuals who are hearing impaired?**

- A. They provide emotional support**
- B. They alert to environmental sounds**
- C. They assist in mobility**
- D. They are mainly for companionship**

Trained hearing ear dogs play a crucial role for individuals who are hearing impaired by alerting them to important environmental sounds. This can include sounds like alarms, doorbells, crying babies, and even approaching vehicles. By being aware and responsive to these sounds, the dogs help their handlers navigate their surroundings safely and effectively, aiding in their overall independence. The bond formed between a hearing ear dog and their handler also fosters confidence and enhances quality of life. While emotional support and companionship are certainly valuable aspects of having a dog, the primary function of a hearing ear dog is to serve as an alert system, which directly addresses the unique challenges faced by individuals with hearing impairments. Thus, they go beyond companionship by providing practical assistance that is specifically tailored to the needs of those who are deaf or hard of hearing.

**8. Approximately one out of how many babies born in the US has some kind of hearing problem?**

- A. 32**
- B. 22**
- C. 42**
- D. 12**

The correct answer to the question about hearing problems in babies born in the US is based on epidemiological data that indicate approximately 1 to 2 out of every 1,000 newborns can be expected to have a significant hearing loss. This translates roughly to one in 22 babies, which aligns with choice B. Understanding this statistic is critical for audiology practitioners, as early identification and intervention can significantly impact the outcomes for children with hearing impairments. The figure is derived from various studies and screening programs, underscoring the importance of regular auditory screening for newborns to ensure any potential issues are addressed swiftly.

**9. What is the primary goal of cochlear implants?**

- A. To replace damaged hair cells in the cochlea
- B. To provide external amplification of sound
- C. To provide direct stimulation to the auditory nerve**
- D. To improve hearing in noisy environments

The primary goal of cochlear implants is to provide direct stimulation to the auditory nerve. Cochlear implants bypass damaged or non-functioning hair cells in the cochlea, which are responsible for converting sound vibrations into electrical signals that the brain interprets as sound. Instead, cochlear implants convert sounds into electrical impulses that are sent directly to the auditory nerve, allowing individuals with profound hearing loss to perceive sounds. This technology is particularly beneficial for those who cannot benefit sufficiently from traditional hearing aids, which primarily amplify sound but do not convert it into electrical signals. While cochlear implants do improve hearing capabilities significantly, especially for speech recognition, they do not necessarily replace hair cells or enhance hearing ability in noisy environments in the same manner that hearing aids do. The focus on direct auditory nerve stimulation is what sets cochlear implants apart as a solution for severe hearing impairment.

**10. What is a key characteristic of speech sounds in relation to listener perception?**

- A. They are perceived in isolation
- B. They are understood equally regardless of context
- C. Individual phonemes can overlap**
- D. They are always produced distinctly

The characteristic that individual phonemes can overlap is fundamental to understanding how speech sounds are processed and perceived by listeners. In natural speech, phonemes—the smallest units of sound—often do not occur in isolation; rather, they can merge and influence each other. This phenomenon, known as coarticulation, occurs when two or more phonemes are articulated in such a way that their acoustic properties blend together. For instance, when pronouncing the word "spoon," the 's' sound is influenced by the following 'p' sound, resulting in a unique acoustic output that is different from the isolated sounds of 's' or 'p.' This overlapping is critical for fluent speech and allows listeners to recognize words even when they are produced rapidly or in less-than-clear environments. It is important to understand that this reflects the nature of spoken language, where sounds are fluid and context-dependent, contributing greatly to effective communication. The perception of speech is thus not based solely on isolated sounds but on the interpretation of overlapping sound patterns within a more extensive linguistic context.