

NBCSN Nationally Certified School Nurse Practice Exam (Sample)

Study Guide



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SAMPLE

Questions

SAMPLE

- 1. What type of hearing loss is mainly due to damage to the cochlea's receptor cells?**
 - A. Conductive hearing loss**
 - B. Mixed hearing loss**
 - C. Sensorineural hearing loss**
 - D. Functional hearing loss**
- 2. After how long of medication therapy is an adolescent with active TB considered non-infectious?**
 - A. 1 week**
 - B. 2 weeks**
 - C. 3 weeks**
 - D. 4 weeks**
- 3. Which type of animal is known for potential zoonotic transmission in a classroom setting?**
 - A. Cats**
 - B. Reptiles**
 - C. Fish**
 - D. Hamsters**
- 4. What is the normal heart rate range for a child up to 8 years old?**
 - A. 50-70 bpm**
 - B. 75-115 bpm**
 - C. 60-100 bpm**
 - D. 80-120 bpm**
- 5. For every degree of fever, how much does the respiratory and heart rate increase?**
 - A. Increase by 5 pulse beats and 2 breaths per minute**
 - B. Increase by 10 pulse beats and 4 breaths per minute**
 - C. Increase by 15 pulse beats and 6 breaths per minute**
 - D. No significant change**

- 6. What does Hib stand for in a health context?**
- A. Hepatitis B**
 - B. Haemophilus influenzae type B**
 - C. High-intensity brain injury**
 - D. Hypotensive ischemic brain**
- 7. Which treatment is recommended for abdominal injuries?**
- A. Apply heat and encourage movement**
 - B. Bend knees and hips and treat for shock**
 - C. Administer oral fluids and wait**
 - D. Encourage deep breathing exercises**
- 8. What type of conditions can exempt an individual from immunizations?**
- A. Obesity and diabetes**
 - B. Pregnancy and immunosuppression**
 - C. Asthma and seasonal allergies**
 - D. Chronic fatigue and migraines**
- 9. What is the first step in treating heat exhaustion?**
- A. Administer intravenous fluids**
 - B. Loosen clothing and give sips of fluids**
 - C. Move to a shaded area**
 - D. Apply heat packs to the body**
- 10. What is a significant risk associated with tongue piercing?**
- A. Risk of excessive bleeding**
 - B. Increased risk of systemic infection**
 - C. Damage to tooth structure**
 - D. Allergic reaction to metal**

Answers

SAMPLE

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

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Explanations

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1. What type of hearing loss is mainly due to damage to the cochlea's receptor cells?

A. Conductive hearing loss

B. Mixed hearing loss

C. Sensorineural hearing loss

D. Functional hearing loss

Sensorineural hearing loss occurs primarily when there is damage to the cochlea's receptor cells, specifically the hair cells responsible for converting sound waves into neural signals. This type of hearing loss can result from a variety of factors, including aging, exposure to loud noise, infections, ototoxic medications, or genetic predispositions. Since the cochlea houses these crucial receptor cells, any impairment in their function directly impacts the ability of the auditory system to transmit sound information to the brain, leading to hearing difficulties. In contrast, conductive hearing loss is typically caused by issues in the outer or middle ear that obstruct the conduction of sound waves, such as fluid accumulation or earwax blockage. Mixed hearing loss combines both conductive and sensorineural components, indicating that there is more than one issue affecting hearing. Functional hearing loss refers to difficulties in hearing that have no identifiable organic cause and may be related to psychological factors or perceived hearing difficulties rather than physical damage to the hearing structures. Understanding these distinctions clarifies why sensorineural hearing loss is specifically linked to damage to the cochlea's receptors.

2. After how long of medication therapy is an adolescent with active TB considered non-infectious?

A. 1 week

B. 2 weeks

C. 3 weeks

D. 4 weeks

An adolescent with active tuberculosis (TB) is typically considered non-infectious after they have been on appropriate anti-TB therapy for at least two weeks. The rationale behind this timeframe is based on the effectiveness of the medication in reducing the bacterial load in the individual and, consequently, minimizing the risk of transmission to others. During the first two weeks of treatment, the individual's sputum is tested for the presence of *Mycobacterium tuberculosis*, and it is common to see a significant decrease in the number of viable bacteria, which lowers the infectious potential. The two-week mark allows time for the body to begin responding to the treatment adequately, leading to decreased coughing and a reduced risk of spreading the bacteria to others. While the total duration for TB treatment can extend for several months, the determination of non-infectious status is specifically tied to the initial two weeks of effective therapy. This information is crucial for managing public health and ensuring the safety of school environments, where adolescents interact closely with peers. Options that propose a duration longer than two weeks may reflect the full course of therapy necessary for a complete resolution of TB, but they do not accurately represent the time after which an individual can be regarded as non-infectious.

3. Which type of animal is known for potential zoonotic transmission in a classroom setting?

- A. Cats**
- B. Reptiles**
- C. Fish**
- D. Hamsters**

Reptiles are indeed known for their potential zoonotic transmission, particularly in a classroom setting where children may have close contact with them. Certain reptiles, such as turtles, lizards, and snakes, can carry *Salmonella* bacteria, which can be transmitted to humans through direct contact or by handling surfaces contaminated with reptile feces. The risk is particularly heightened in environments like classrooms where hygiene practices may not be as stringent, and children might not be as aware of the risks involved in handling these animals. In contrast, while cats can also transmit diseases like toxoplasmosis and cat scratch fever, the incidence in a controlled environment such as a classroom setting may not be as significant compared to reptiles. Fish, on the other hand, are generally considered low-risk for zoonotic diseases, though there are rare cases of infections transmitting through water handling. Hamsters can carry diseases like lymphocytic choriomeningitis, but again, the risk of zoonotic transmission in a classroom context is less prevalent than with reptiles. Thus, reptiles stand out as a notable concern for zoonotic diseases in such environments.

4. What is the normal heart rate range for a child up to 8 years old?

- A. 50-70 bpm**
- B. 75-115 bpm**
- C. 60-100 bpm**
- D. 80-120 bpm**

The normal heart rate range for a child up to 8 years old typically falls between 75 and 115 beats per minute. This range accounts for the fact that children's heart rates tend to be faster than adults due to their higher metabolic rates and physiological differences. As children grow, their heart rates gradually decrease. A heart rate within this range indicates that the child's cardiovascular system is functioning normally, efficiently delivering oxygen and nutrients to the body. Values below or above this range may indicate potential health issues, such as bradycardia (too slow) or tachycardia (too fast), and would require further assessment. In clinical practice, it's important to consider individual variations and context, but generally, 75 to 115 bpm is well recognized as a typical range for this age group. Understanding normal pediatric vital signs, such as heart rate, is crucial for early detection of potential health problems and ensuring effective monitoring and care in school health settings.

5. For every degree of fever, how much does the respiratory and heart rate increase?

- A. Increase by 5 pulse beats and 2 breaths per minute**
- B. Increase by 10 pulse beats and 4 breaths per minute**
- C. Increase by 15 pulse beats and 6 breaths per minute**
- D. No significant change**

The correct answer indicates that for every degree of fever, the pulse rate increases by about 10 beats per minute and the respiratory rate increases by approximately 4 breaths per minute. This physiological response occurs because fever stimulates the body's metabolism, leading to an increased demand for oxygen and nutrients, which in turn raises heart and respiratory rates. Increased heart rate is a result of the body working harder to circulate blood and deliver oxygen to tissues that may be more metabolically active due to the elevated temperature. Similarly, the rise in respiratory rate is associated with an increased need for oxygen intake and carbon dioxide elimination, as the body's metabolic processes accelerate with fever. This response is well-documented in clinical practice, helping healthcare providers assess the degree of illness and the body's response to it. Understanding these vital sign changes is crucial for nurses, especially in school settings, where tracking children's health can guide necessary interventions. The other choices do not accurately reflect the established physiological changes that occur with fever, leading to their exclusion as correct answers.

6. What does Hib stand for in a health context?

- A. Hepatitis B**
- B. Haemophilus influenzae type B**
- C. High-intensity brain injury**
- D. Hypotensive ischemic brain**

Hib refers to Haemophilus influenzae type B, a significant bacterial pathogen in children that can cause serious infections such as meningitis, pneumonia, and epiglottitis. Vaccination against Hib has been a major public health achievement, dramatically reducing the incidence of these diseases in vaccinated populations. In the context of this question, understanding Hib is crucial for school nurses as they play a vital role in monitoring vaccination records and ensuring that children receive appropriate immunizations to prevent these severe illnesses. Health professionals are trained to recognize the importance of Hib in a child's health, particularly in early childhood, when children are most susceptible to infections caused by this bacterium. The other options listed do not denote Hib. Hepatitis B relates to a viral infection affecting the liver. High-intensity brain injury and hypotensive ischemic brain refer to specific medical conditions that do not involve Haemophilus influenzae type B. Thus, option B is the precise term used in the health context associated with this particular bacterium.

7. Which treatment is recommended for abdominal injuries?

- A. Apply heat and encourage movement**
- B. Bend knees and hips and treat for shock**
- C. Administer oral fluids and wait**
- D. Encourage deep breathing exercises**

Bending the knees and hips and treating for shock is the recommended approach for managing abdominal injuries. This position helps to reduce tension on the abdominal muscles and can alleviate pain by providing some comfort to the affected area. Additionally, treating for shock is crucial because abdominal injuries can lead to significant internal bleeding and organ damage, which may cause shock. In such cases, it is important to keep the patient calm and still, monitor their vital signs, and avoid giving them anything by mouth, since surgical intervention may be necessary. The other choices are not appropriate for handling abdominal injuries. Applying heat and encouraging movement could exacerbate an injury or lead to further complications. Administering oral fluids may be dangerous, especially if there is a risk of internal bleeding or the need for surgery, as it can complicate anesthesia or make it difficult for medical personnel to assess the situation properly. Encouraging deep breathing exercises is typically used for respiratory issues or stress relief but does not address the critical needs associated with abdominal injuries.

8. What type of conditions can exempt an individual from immunizations?

- A. Obesity and diabetes**
- B. Pregnancy and immunosuppression**
- C. Asthma and seasonal allergies**
- D. Chronic fatigue and migraines**

The correct answer identifies conditions such as pregnancy and immunosuppression as potential exemptions from immunizations. Pregnant individuals may experience changes in their immune system and may be at risk for certain infections; therefore, some vaccinations may be deferred to protect both the mother and the fetus. Additionally, individuals who are immunosuppressed, either due to underlying medical conditions or treatments such as chemotherapy, may not be able to receive certain live vaccines due to the risk of adverse reactions. Other options like obesity and diabetes, asthma and seasonal allergies, or chronic fatigue and migraines generally do not qualify as direct exemptions from immunizations. These conditions may have other health implications but typically do not pose a significant risk that would prevent someone from getting vaccinated according to public health guidelines. Immunization programs are designed to consider various medical conditions, but not all chronic conditions warrant an exemption from vaccines.

9. What is the first step in treating heat exhaustion?

- A. Administer intravenous fluids**
- B. Loosen clothing and give sips of fluids**
- C. Move to a shaded area**
- D. Apply heat packs to the body**

The initial step in treating heat exhaustion focuses on immediate action to cool the affected individual and prevent further physiological stress. Loosening clothing and providing sips of fluids helps decrease the body's temperature and rehydrates the person. This action allows for more effective heat dissipation and addresses mild dehydration that often accompanies heat exhaustion. Moving to a shaded area is an important step that typically follows this action to provide a cooler environment, thus aiding in recovery. While administering intravenous fluids might be necessary in more severe cases or when the patient is unable to drink, it is not the immediate first step. Applying heat packs would be counterproductive, as the goal is to reduce body temperature, not raise it. Therefore, loosening clothing and giving fluids is the appropriate initial response to manage heat exhaustion effectively.

10. What is a significant risk associated with tongue piercing?

- A. Risk of excessive bleeding**
- B. Increased risk of systemic infection**
- C. Damage to tooth structure**
- D. Allergic reaction to metal**

A significant risk associated with tongue piercing is damage to tooth structure. When a piercing is placed in the tongue, the jewelry can come into contact with the teeth, potentially causing chips, cracks, or wear on the enamel over time. This is particularly concerning as enamel loss can lead to increased sensitivity and susceptibility to cavities. While excessive bleeding and systemic infection are concerns, they are less common specifically associated with tongue piercings compared to the long-term dental effects. Allergic reactions to metals can occur but are typically associated with specific types of jewelry rather than a general risk tied to the act of tongue piercing itself. Thus, the concern for dental damage stands out as a critical consideration when evaluating the risks of this type of body modification.