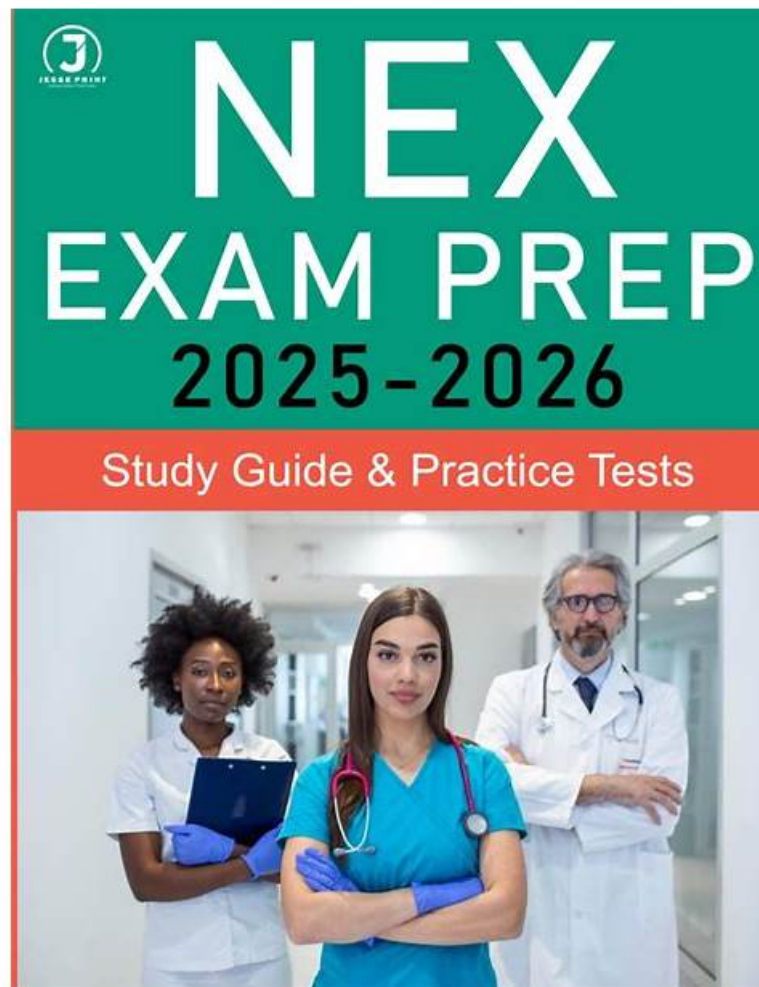


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NLN Nursing Entrance Exam (Math, Science and Verbal) Sample Questions (Q109-Q114):

NEW QUESTION # 109

Which type of cartilage is found in the rib cage?

- A. Fibrocartilage
- **B. Hyaline**
- C. Elastic
- D. Bone

Answer: B

Explanation:

The cartilage found in the rib cage, specifically connecting the ribs to the sternum, is hyaline cartilage.

Hyaline cartilage provides both strength and flexibility, allowing the rib cage to expand and contract during breathing. Fibrocartilage is found in areas requiring shock absorption, such as intervertebral discs. Elastic cartilage provides flexibility and is found in structures like the ear and epiglottis. Bone is not a type of cartilage. The NEX Science exam often tests knowledge of cartilage types and their locations, making hyaline cartilage the correct answer for the rib cage.

NEW QUESTION # 110

Review the diagram below of the human eye.

Structure number 1 is necessary in order for the eye to

- **A. focus images on the retina.**
- B. pick up light stimuli from the environment.
- C. protect itself from the entrance of foreign objects and debris.
- D. regulate the amount of light entering the posterior chamber.

Answer: A

Explanation:

Structure number 1 in the diagram represents the lens of the eye. The lens plays a crucial role in focusing incoming light onto the retina so that clear images can be formed. It changes shape through a process called accommodation, allowing the eye to focus on objects at varying distances. Protection from debris is mainly the function of the cornea, eyelids, and eyelashes. Regulation of light entering the eye is controlled by the iris, which adjusts the size of the pupil. Picking up light stimuli is the role of rods and cones located in the retina.

Because the lens is responsible for bending and focusing light precisely onto the retina, option A is correct.

The NEX Science exam frequently tests the relationship between eye structures and their functions, particularly focusing mechanisms.

NEW QUESTION # 111

Which activity is the least effective method of preventing the spread of diarrheal infections?

- A. Cleaning hands with an antibacterial solution
- B. Washing hands with soap and water
- C. Isolating the patient
- **D. Wearing a mask**

Answer: D

Explanation:

Diarrheal infections are most often spread through the fecal-oral route, commonly due to contaminated hands, food, or water.

Washing hands with soap and water is the most effective method for preventing transmission.

Antibacterial solutions and patient isolation also reduce spread. Wearing a mask is effective for preventing respiratory infections but offers little protection against diarrheal diseases. The NEX Science exam emphasizes appropriate infection-control strategies based on the mode of transmission, making mask use the least effective option in this scenario.

NEW QUESTION # 112

What is the result of crossing over during meiosis?

- A. Homologous pairs of chromosomes have been randomly assorted along the metaphase plate.
- B. Non-sister chromatids of homologous pairs of chromosomes have formed a chiasmata.
- **C. Homologous pairs of chromosomes have exchanged segments of their DNA.**
- D. Members of homologous pairs of chromosomes have lined up along the metaphase plate.

Answer: C

Explanation:

Crossing over is a key event that occurs during prophase I of meiosis. During this process, homologous chromosomes pair up and exchange corresponding segments of DNA. Specifically, non-sister chromatids exchange genetic material, which results in new combinations of alleles. The primary result of this exchange is increased genetic variation in gametes, which is essential for evolution and diversity within a species. While chiasmata are structures formed during crossing over, they describe the physical points of contact rather than the outcome of the process. Lining up at the metaphase plate and random assortment occur later during meiosis and are separate mechanisms of genetic variation. Therefore, the correct result of crossing over is the exchange of DNA segments between homologous chromosomes. This process ensures that offspring have unique genetic combinations that differ from both parents, which is a core concept tested on the NEX Science exam.

NEW QUESTION # 113

An acid needs to be diluted at a ratio of 5 grams of acid per 3 liters of water. How many grams of acid are needed for a solution of 24 liters of water to maintain the ratio?

- **A. 40 grams**
- B. 360 grams
- C. 1.6 grams
- D. 14.4 grams

Answer: A

Explanation:

This is a ratio and proportion problem. The given ratio is 5 grams of acid for every 3 liters of water. First determine how many groups of 3 liters are in 24 liters: $24 \div 3 = 8$. Each group requires 5 grams of acid, so multiply: $8 \times 5 = 40$ grams. Therefore, option C is correct. Option D results from dividing instead of multiplying. Option B is excessively large and unrealistic. Ratio problems on the NEX require identifying the scaling factor before multiplying.

NEW QUESTION # 114

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