

Pharmaceutical Sample Questions

Match the category of animal health product with its function/use:

A - Vaccines	_____ reduce pain, fever, and swelling
B - Antibiotics	_____ supplement minerals and vitamins
C - Nutrient Supplements	_____ reduce parasite burdens
D - Parasiticides	_____ stimulate the immune system
E - Analgesics/Antipyretics/Anti-inflammatories	_____ prevent and treat disease

Circle True or False:

True or False: It is only necessary to be concerned about temperature and light while a vaccine is being used at the chute.

True or False: Unopened containers of products that have expired are guaranteed to efficacious.

True or False: Product in opened containers will not deteriorate over time if it is stored under proper conditions.

Fill in the Blank:

All the recommendations for proper handling, storage, and administration of animal health products can be found on the _____ for that product.

Multiple Choice:

1. Three factors that can affect the efficacy of animal health products during storage, handling and use are: **(circle all that apply)**
 - a. Time
 - b. Humidity
 - c. Temperature
 - d. Melting Point
 - e. Light
2. When using vaccines that require mixing (rehydrated) prior to use, a good rule of thumb is to not mix more vaccine than can be used in: **(choose best answer)**
 - a. 1 Hour
 - b. 2 Hours
 - c. 4 Hours
 - d. 8 Hours
3. Which of the following are good general guidelines to follow for vaccines? **(circle all that apply)**
 - a. Transport, store and handle at ambient temperature
 - b. Minimize exposure to light
 - c. Keep vaccines cool during transportation, storage and use
 - d. Expose to light to increase activity

4. Which of the following are reasons to change needles frequently? **(circle all that apply)**
- Maintain a sharp needle to reduce irritation at the injections site
 - Maintain a clean needle to avoid contained injection site
 - Avoid introducing foreign materials into product containers when reloading syringes
 - None of the above, changing needles frequently is not necessary
5. Which of the following are accepted rules of thumb for changing needles? **(circle all that apply)**
- Change every 10-20 injections
 - Change every 50 injections
 - Change each time the multidose syringe requires reloading
 - Change daily before starting the day's work
6. Syringes utilized to administer vaccines should be: **(choose best answer)**
- Cleansed with detergent after each use
 - Cleansed with disinfectant after each use
 - Cleansed with hot, clean water after each use
7. Which of the following are considered extra-label drug use? **(circle all that apply)**
- Use of a product in a species of animal that is not listed on the label
 - Use of a product for a disease or symptoms not listed on the label
 - Use of a product at dosage levels higher than stated on that label
 - Using a route of administration not listed on the label
 - Administering a product under the skin when the label calls for subcutaneous injection
8. Which of the following statements are true about withdrawal time? **(circle all that apply)**
- It is not of any concern to beef producers
 - It is listed on the label and packaging for animal health products
 - It is the amount of time that must pass in order for tissue residues of an animal health product to decrease to concentrations considered safe by the FDA
 - It must be extended when products are used extra-label
9. Extra-label drug use is allowed if: **(circle all that apply)**
- The producer decided there are no other alternatives
 - Authorized by a veterinarian
 - Authorized by a veterinarian and a veterinarian-client-patient relationship exists
10. **Circle all** correct injection recommendations:
- For subcutaneous injections use 0.5 to 1.0-inch needle
 - For intramuscular injections use 1.5 to 2.0-inch needle
 - For subcutaneous injections use 1.0 to 1.5-inch needle
 - For intramuscular injections use 1.0 to 1.5-inch needle
11. **Circle all** statements that are true about injection site lesions:
- Are a food quality issue
 - Are a food safety issue
 - Result in trim loss from beef products
 - Are not of concern to the beef industry

12. Injection site lesions are caused by:

- a. Irritation from injected animal health products
- b. Irritation from damaged or dull needles
- c. Contamination of the injections site
- d. All the above

13. Which of the following will reduce injection site lesions and losses from lesions? (circle all that apply)

- a. Use subcutaneous rather than intramuscular route of administration
- b. Place all injections in the neck region
- c. Change needles frequently
- d. Do not inject too much product in a single location

Answers Provided Below

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B - Antibiotics

C - Nutrient Supplements

D - Parasiticides

E - Analgesics/Antipyretics/Anti-inflammatories

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C supplement minerals and vitamins

D reduce parasite burdens

A stimulate the immune system

B prevent and treat disease

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