**Unit Test**

1. What is the process of semen collection for AI?

* Bull mounts a teaser animal or a dummy
* Ejaculates into the artificial vagina
* The outer liner is filled with water 42-48 degrees Celsius.

1. What is embryo transfer?

Embryo transfer is the removal of embryos from a super ovulated mare and the transfer of those embryos to less fertile, inferior, older mares

1. List out the six (6) steps of Embryo Transfer.

* **Superovulation**
* **Insemination**
* **Synchronization of Recipients**
* **Collection of Embryos**
* **Location, Grading and Storage of Embryos**
* **Deposition of Embryos into Recipient Tract**

1. List some disadvantages of Embryo Transfer.

* **Too expensive**
* **Time consuming**
* **Spread of reproductive diseases**

1. Semen quality is evaluated by which six (6) items?

A. color

B. volume

C. consistency

D. semen morphology

E. Size

**F. All of the answer choices except E.**

1. **T**/F Once the straw is removed from the canister, the straw should be placed into the water bath at 35 degrees Celsius.
2. “Movement of preimplantation embryos from the reproductive tract of the genetic mother (donor) to the reproductive tract of the surrogate mother (recipient)” is called what?
3. **Embryo Transfer**
4. Cloning
5. Artificial Insemination
6. None of the above
7. What is cloning?

**Reproducing a genetically identical offspring**

1. List the advantages of Cloning.

* Utilize good genetics
* Make steers into bulls
* Clone for insurance
* Get another good animal

1. List the disadvantages of Cloning.

* **Expensive**
* **Will animals be normal**
* **Takes many times to clone**
* **Dangerous to humans**

1. List three activist groups discussed in class.
   * Animal Legal Defense Fund
   * Compassion Over Killing
   * Farm Animal Rights Movement
   * Farm Sanctuary
   * Fund for Animals
   * Humane Society of the United States
   * In Defense of Animals
   * Mercy for Animals
   * People for the Ethical Treatment of Animals
   * Physicians Committee for Responsible Medicine
2. In what year, the first animal, a tadpole, was cloned

A.1948

**B. 1952**

C. 1955

D. 1960

E. 1961

1. What is the success rate of horse using embryo transfer?
2. 10-15%
3. 20-30%
4. 35%-4%
5. **50-60%**
6. 60-70%
7. What are the three types of cloning technologies we discussed?

* recombinant DNA technology or DNA cloning
* reproductive cloning
* therapeutic cloning.

Fill in the Blank

1. **Animal cloning** is an assisted reproductive technology similar to artificial insemination, embryo transfer, and in vitro fertilization.
2. **Animal Welfare** is a human responsibility that encompasses all aspects of animal well-being, including proper housing, management, disease prevention and treatment, responsible care, humane handling, and, when necessary, humane euthansia.
3. **Animal Rights** is a philosophical view that animals have rights similar or the same as humans. True animal rights proponents believe that humans do not have the right to use animals at all. Animal rights proponents wish to ban all use of animals by humans.